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U.S. DEPARTMENT OF COMMERCE

MAURICE H. STANS, Secretary

ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION
ENVIRONMENTAL DATA SERVICE

CLIMATOLOGICAL DATA

NATIONAL SUMMARY

JANUARY 1970

Volume 21 No. 1



C O N T E N T S

SURFACE DATA	Page
General Summary of Weather Conditions-----	3
Observed Extremes of Temperature and Precipitation - By States-----	5
Climatological Data - Stations - English Units-----	6
Climatological Data - Stations - Metric Units-----	13
Heating Degree Days-----	20
Cooling Degree Days-----	21
Storm Summary-----	22
General Summary of River and Flood Conditions-----	23
Flood Stage Data-----	26
UPPER AIR DATA	
Rawinsonde Data-----	28
SOLAR RADIATION DATA	
Solar Radiation Intensities-----	35
Daily Totals and Monthly Averages-----	36
Net Radiation-----	38
Solar Ultra-Violet Radiation-----	38
TOTAL OZONE DATA-----	38
CHARTS I-XVII-----	40

NOTE: Delayed data and corrections will be carried in the June and December issues of this publication. An explanatory page "Description of Charts" will be carried in the January and July issues.

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CLIMATOLOGICAL DATA

NATIONAL SUMMARY

Volume 21 No. 1

JANUARY 1970

GENERAL SUMMARY OF WEATHER CONDITIONS

HIGHLIGHTS:

1. The usual variety of winter weather occurred in January 1970.
2. Record warmth occurred at a number of western stations and record cold at some eastern locations.
3. Precipitation ranged widely from over 16 inches along the Oregon coast to none or light sprinkles in the southwestern deserts and spots in the Great Plains.
4. Heavy snow fell in the vicinity of the Great Lakes.
5. In some areas, the "January thaw" lasted only a day or so.

TEMPERATURE.--January, the first month of the year, was named for the ancient God, Janus, who had two faces. One was a happy face; the other, looking in the opposite direction, was a sad face. January 1970 showed both faces: Mild temperatures predominated in the West and bitter cold in the East. A large area which included southern Idaho, northern Nevada, and most of Utah, averaged more than 6° warmer than normal. Most of the eastern half of the Nation averaged 6° to 12° colder than normal. For 13 consecutive days, January 12 to 24, the temperature at San Francisco, Calif., did not drop below 50°. This is the most consecutive such days for any January of record at San Francisco. Elko, Nev., registered 62° on the 23d, the warmest January temperature at Elko in 62 years.

Temperatures at Medford, Oreg., averaged 42.5°, the warmest average temperature in 56 years. Sacramento recorded the 2d warmest January in 93 years with an average temperature of 51.7°. In contrast, eastern stations recorded recordbreaking or near recordbreaking low average temperatures. Hartford, Conn., registered the coldest January (16.8°) in 66 years; Tallahassee, Fla., (45.9°), the coldest in 32 years; Athens, Ga., (36.9°) the coldest in 30 years; Waterloo, Iowa, (5.2°) the coldest in 95 years; Houghton Lake, Mich., (12.5°) the coldest in 39 years; Buffalo and Rochester, N. Y., (17.6° and 18.0°, respectively), coldest January in 25 years; Hatteras, Charlotte, and Wilmington, N. C., (37.7°, 34.4°, and 39.2°, respectively), coldest in 30 years; Sioux Falls, S. Dak., (4.8°), coldest in 52 years; Norfolk, Nebr., (33.9°) coldest in 30 years; Allentown, Pa., (19.2°), coldest in 45 years; Providence, R. I., (19.6°), coldest in 66 years; and Beckley, W. Va., (24°), coldest in 22 years. In addition to these extreme records, a number of localities had never experienced such cold average temperature in any month. These include: Concord, N. H., (11.0°); Albany, N. Y., (9.7°); and Burlington, Vt., (3.6°). Besides being generally cold throughout most of the month, a number of stations recorded extremes of special interest. The temperature at Waterloo, Iowa, remained below zero for about 135 hours, January 4 to 10. The temperature at Lexington, Ky., fell to 0° or colder on 7 days, the greatest number of days with zero temperatures in any January in the last 34 years.

In some areas, the cold, especially when accompanied by strong winds or precipitation, merely made the people uncomfortable. But in other places, the cold produced economic losses. Subfreezing temperatures on the 6th and 7th caused extensive damage to tropical plants in

the Corpus Christi, Texas, area, and the frost on the 11th caused heavy damage to pasture grasses, unprotected ornamentals, and truck crops in northern and central Florida.

Most of the Nation averaged colder than normal the first part of January. The West warmed about midmonth and above normal temperatures continued until shortly before the month ended when cooler weather returned. Unusually high temperatures prevailed about the end of the 3d week when a large area from Montana to northern Arizona and from Oregon to Colorado averaged 10° to 20° warmer than normal.

Temperatures over the eastern half of the Nation remained below normal until the last few days of January. On January 7, the temperature at Del Rio, Texas, plunged to 19°, the coldest since 1964. Jacksonville, Fla., registered 32° at midday on the 9th. The next morning, West Palm Beach, Fla., registered 29°, the coldest temperature of record at that location.

A large area from Iowa to Louisiana and eastward to the Atlantic Ocean averaged more than 15° colder than normal from the 5th to the 11th. The weather over the East moderated slightly in the 3d week of January, but bitter cold returned in the 4th week.

The "January thaw" occurred late in the month. Temperatures warmed slightly and some of the snow in the North Central and Northeast disappeared. After a few days of mild weather, temperatures dropped sharply as the month ended.

In upstate New York, the mild spell ended one of the coldest Januarys of record, and the coldest month since February 1934.

PRECIPITATION.--Pacific storms through most of the month brought generous rains to the Washington, Oregon, and northern California coast and the western inland valleys and heavy snow to the nearby mountains. A number of locations in Oregon and Idaho reported the wettest January of record. Among these is Burns, Oreg., with 5.73 inches. Pendleton, Oreg., with 3.92 inches, exceeded other Januarys since 1912. Cape Blanco, Oreg., received more than 24 inches of precipitation. Much of the area from the southwestern deserts to the Upper Rio Grande and northeastward across the Great Plains to the Upper Mississippi River Valley and Lake Superior received light rains or snow flurries. No precipitation fell at some locations in that area.

January began cloudy and dismal. Generous rains fell along the Pacific coast from Washington to northern California with snow in the nearby mountains. In the first part of the month, snow fell in the Rocky Mountains and Great Plains. Heavy snow fell in the lee of the Great Lakes with some falls in western New York exceeding 24 inches. Light snow fell as far south as northern and central Louisiana, and flurries occurred in Tennessee. Sleet, freezing rain, and freezing drizzle fell in many areas from the Ohio River Valley to the northern edge of the Gulf States.

Strong winds drifted the snow badly and the deep drifts and glazed roads hindered transportation. Many schools, factories, and businesses in the eastern half of the Nation were closed because of the adverse weather.

On January 13, a severe windstorm accompanied by up to 2 inches of rain caused heavy damage to fruit and

GENERAL SUMMARY OF WEATHER CONDITIONS-Continued

JANUARY 1970

vegetable crops in Hawaii.

Widespread cloudiness prevailed over most of the Nation at midmonth. Precipitation was not widespread, however. Rainy weather continued along the Pacific coast from Washington to central California, with snow in the Cascades and northern Sierras and eastward to the northern and central Rocky Mountains. Light snow flurries occurred in the northern Great Plains and heavier snow fell from the Great Lakes to New England. Several inches of new snow accumulated in parts of western New York and northern New England.

The wet-weather pattern spread over more of the Country in the latter part of the third week. Rain or snow fell over most of the Western States from Montana to Arizona and New Mexico, rain fell in southern Texas, and thunderstorms developed in the Florida Peninsula with the heaviest showers in the south portion. On the morning of January 19, snow covered most of the northern half of the Nation, being deepest, as is usual in our winters, in the Cascades where up to 100 inches existed at some locations.

Heavy rains along the Pacific coast produced 4- to 5-inch totals along the Oregon and northern California coast and up to 8 inches in the Sierras. Moderate to heavy rain fell along the northern Pacific coast with snow in the nearby hills and mountains in the 4th week of January. Freezing rain near the Columbia River Gorge caused heavy damage to powerlines and orchards. The northern Rocky Mountains received frequent moderate to heavy snow. Light to moderate rain fell intermittently in the Great Basin. No rain or only light

sprinkles fell from central Utah and southern Colorado southward to Mexico. Mostly light precipitation occurred over the Great Plains. This included frequent light flurries in the north and sprinkles in the south. Intermittent flurries occurred in the Great Lakes region and the Northeast; also in the central and southern Appalachians. Light sprinkles fell elsewhere in the Southeast. Weekly precipitation totals over the central and eastern sections of the Country were mostly less than 1/4 inch, in many areas less than 1/10 inch.

Near the end of the month, a Pacific storm lashed the coast from Washington to northern California. Winds at Cape Blanco, Oreg., gusted to 72 m.p.h. on the forenoon of the 26th. Heavy rains fell along the coast, in the inland valleys, and in the intermountain region with snow in the higher mountains. The heavy rains helped produce recordbreaking January totals in sections of Oregon and Idaho. In contrast, Boston, Mass., reported the driest January in 100 years.

Another storm developed over the central Rocky Mountains. Snow and high winds made travel difficult through the mountain passes. Scattered snow fell over the Upper Mississippi River Valley and from the eastern Great Lakes to the northern and central Appalachians. In Wisconsin, a mixture of snow and freezing rain made highway travel difficult.

The warm, southerly winds melted some of the snow cover. Some light blowing dust occurred in the western Great Plains on the 28th. The "January thaw" in southeastern Wisconsin resulted in some runoff in the extreme southeastern part of the State.

OBSERVED EXTREMES OF TEMPERATURE AND PRECIPITATION -- BY STATES

JAN. 1973

STATE	Temperature						Precipitation				
	Monthly extremes						Monthly extremes				
	Station	Highest °F	Date	Station	Lowest °F	Date	Station	Greatest In.	Station	Least In.	
Alabama	Fort Morgan	81	29	Valley Head	-6	9	Claiborne	5.28	Hamilton 3 S	1.05	
Alaska	Tree Point Light Sta	54	2	Tok	-63	14	Little Port Walter	24.45	2 Stations	T	
Arizona	Tumacacori Nat Mon	82	26+	Heber Ranger Station	-20	3	Jacob Lake	1.31	57 Stations	.00	
Arkansas	4 Stations	79	29+	3 Stations	-15	9	Jonesboro	3.21	2 Stations	.19	
California	2 Stations	82	25+	Bodie	-17	3	Pit River Power House	45.94	6 Stations	.00	
Colorado	Walsen	77	27	Taylor Park	-46	6+	Bertrand Pass	4.80	9 Stations	.00	
Connecticut	Westbrook	49	26	Coventry	-19	23	Putnam Lake	1.20	2 Stations	.20	
Delaware	2 Stations	70	29	5 Stations	-2	10+	Selbyville	D 3.34	Wilmington NCastle WBAP	1.00	
Florida	2 Stations	88	28+	Fountain 3 SSE	8	10+	Key West WBAP	8.21	Tavernier	1.22	
Georgia	7 Stations	81	30+	Blairsville Exp Sta	-10	10+	Dawson	5.69	Swainsboro	1.59	
Hawaii	Pahala 21, Hawaii	91	15	Mauna Loa Slope Obs, Hawaii	25	9	Kahana 883, Oahu	31.12	Makaha Kai 796, Oahu	.60	
Idaho	Grand View 2 W	64	24	Island Park Dam	-41	5	Deadwood Dam	11.97	Chilly Barton Flat	.19	
Illinois	2 Stations	73	29+	Mount Carroll	-24	21	Lawrenceville	1.96	Cahokia	.11	
Indiana	Evansville	70	28	Culver Experiment Farm	-23	22+	Knightstown	2.03	Logansport Radio WSAI	.21	
Iowa	Keokuk Lock and Dam 19	59	28	2 Stations	-35	20+	Cresco	D 1.06	Emerson 4 ENE	T	
Kansas	2 Stations	78	27+	5 Stations	-10	21+	Enterprise	1.01	3 Stations	.00	
Kentucky	4 Stations	72	28	Bradfordville	-16	10	Tillora	D 2.27	Cobb	.48	
Louisiana	Bogalusa	86	26	Plain Dealing	9	9	Saint Bernard	4.43	Vermilion Lock	.77	
Maine	Rumford 1 SSE	48	29	CLYDE LAKE 2	-33	21	East Dover	1.03	Presque Isle	.29	
Maryland	2 Stations	70	29	Oakland 1 SE	-14	23	Leonardstown 3 NW	2.81	Williamsport	.62	
Massachusetts	South Egremont	54	29	Stockbridge	-24	23	South Wellfleet	2.13	Springfield Gen Elec	.31	
Michigan	2 Stations	52	28	Champion Van Riper Pk	-32	19	Montague	4.64	Standish 2 S	.31	
Minnesota	Tracy	41	25	2 Stations	-44	19+	Cedar	2.32	Waskish Ranger Station	.08	
Mississippi	Wiggins 4 SE	82	27	WABOBA 1 E	-1	9	Bay Saint Louis	5.58	Baldwyn	.55	
Missouri	Festus 2 NW	78	28	3 Stations	-19	21	Kennett Radio KBOA	1.49	2 Stations	T	
Montana	3 Stations	62	24+	Hinsdale 23 N	-47	17	Heron 2 NW	7.99	Twin Bridges	.01	
Nebraska	Benkelman	70	25	Wakefield	-34	19	Lyman	.80	Irene	.00	
Nevada	2 Stations	75	24	Deeth 2 SW	-24	6	Glenbrook	7.82	3 Stations	.00	
New Hampshire	Grafton	49	29	Mount Washington	-33	21	Mount Washington	5.53	Wolfeboro	.30	
New Jersey	2 Stations	60	29	Layton 2	-17	9	Jersey City	2.82	Bound Brook 2 W	.37	
New Mexico	Tularosa	87	25	Eagle Nest	-34	2	Fenced Lake 3 NE	.97	55 Stations	.00	
New York	Canandaigua 3 S	53	29	Old Forge	-34	22	Lattle Valley	3.68	Roxbury	.26	
North Carolina	Elizabethtown Lock 2	81	29	Waynesville 1 E	-16	9	Cape Hatteras WB	5.61	2 Stations	1.11	
North Dakota	Marmarth	49	25	Linton	-44	18	Belcourt Indian Res	D 1.40	Sherwood 3 N	T	
Ohio	Ironton	70	28	Jackson 2 NW	-28	9	Hiram	2.58	Defiance	.52	
Oklahoma	2 Stations	82	28	Tahlequah	-10	9	Idabel	2.40	21 Stations	T	
Oregon	Roseburg KQEN	71	23	Seneca	-23	3	Valsetz	37.93	Whitehorse Ranch	1.07	
Pennsylvania	3 Stations	61	29	Conneautville	-23	24	Donegal	4.89	Bear Gap	.17	
Puerto Rico	Mayaguez Nuclear Ctr, P.R.	97	4	Ramey Air Force Base	39	28	Pico Del Este, P. R.	13.12	East Hill, V. I.	.07	
Rhode Island	Kingston	48	29	2 Stations	-6	23	Kingston	1.82	Block Island WBAP	.27	
South Carolina	Mc Coll	80	29	Caesars Head 1 NE	-11	9	Mc Coll	8.92	Sullivan's Island	1.52	
South Dakota	Porcupine 16 NW	65	27	2 Stations	-39	19	Deadwood	2.06	Sisseton	T	
Tennessee	5 Stations	74	30+	Mountain City No 2	-20	22	Monteagle	3.63	Newman	D .53	
Texas	2 Stations	89	29	Vega	-3	6	Port Mansfield	5.12	45 Stations	.00	
Utah	5 Stations	67	24+	3 Stations	-32	6+	Alta	11.48	6 Stations	.00	
Vermont	2 Stations	50	30+	2 Stations	-28	21+	Mount Mansfield	2.26	Northfield	.38	
Virginia	Boykins	80	29	Partlow 3 WNW	-16	10	Riverton	3.71	Speedwell	.65	
Washington	2 Stations	60	21	Republic	-11	3	Wind River	32.36	Irene Mt Wauconda	1.60	
West Virginia	3 Stations	72	29	2 Stations	-18	23+	Pickens 1	3.16	Franklin 2 NE	.45	
Wisconsin	2 Stations	46	31+	2 Stations	-44	19+	Gurney	1.92	Foxboro	.21	
Wyoming	Heart Mountain	67	23	Bondurant 3 NW	-43	5	Snake River	8.38	4 Stations	T	

+ And also on an earlier date or dates.

NOTE: Dates in the above table apply to the period 24 hours prior to time of observation. In some cases the actual occurrence is on the calendar date preceding that shown. (See individual Climatological Data for times of observations).

D¹ Water equivalent of snowfall wholly or partly estimated, using a ratio of 1 inch water equivalent to every 10 inches of snowfall.

CLIMATOLOGICAL DATA

ENGLISH UNITS

JANUARY 1971

State and Station	Elevation (ground)	Pressure		Temperature						Precipitation						Wind				No. of days (sunrise to sunset)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
		Station	Sea level	Average maximum	Average minimum	Average	Departure from normal			Highest	Date	Lowest	Date	Max 90° F or above	Min. 32° F or below	No. of days	No. of days		Resultant speed	Resultant direction	Speed	Direction	Date	Clear 0-3	Partly, 4-7	Cloudy 8-10	Sky cover, tenths (sunrise to sunset)	Possible sunshine																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
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ENGLISH UNITS

See footnotes at end of table

CLIMATOLOGICAL DATA

ENGLISH UNITS

JANUARY 1955

State and Station	Elevation (ground)	Pressure		Temperature						Precipitation				Wind				No. of days (sunrise to sunset)			Sky cover, tenths (sunrise to sunset)	Possible sunshine %																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
		Station Q	Sea level	Average maximum	Average minimum	Average	Departure from normal	Highest	Lowest	Date	No. of days		Average relative humidity	Total	In.	Departure from normal	Greatest in 24 hours	0.1 inch or more	With thunderstorms	Snow, Sleet			Maximum depth on ground	Resultant speed	Resultant direction	Speed	Direction	Fastest mile	Date	Clear 0-3	Partly cloudy 4-7	Cloudy 8-10																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
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CLIMATOLOGICAL DATA

ENGLISH UNITS

January 1971

State and Station	Elevation (ground)	Pressure		Temperature						Precipitation				Wind				No. of days (sunrise to sunset)		Possible sunshine																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
		Station Q	Sea level	Average maximum	Average minimum	Average	Departure from normal			Highest	Lowest	Date	No. of days		Resultant direction	Resultant speed	Fastest mile																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
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See footnotes at end of table

CLIMATOLOGICAL DATA

ENGLISH UNITS

JANUARY 1973

State and Station	Elevation (ground)	Pressure		Temperature					Precipitation					Wind		No. of days (sunrise to sunset)	Sky cover, tenths																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
		Station Q	Sea level	Average maximum	Average minimum	Average	Departure from normal		Highest	Date	Lowest	Date	No. of days		Greatest in 24 hours			With thunderstorms	Snow, Sleet	Total	In	In	In	Mph.	Mph.	Resultant speed	Resultant direction	Speed	Direction	Date	Fastest mile	Clear, 0-3	Partly cloudy, 4-7	Cloudy, 8-10																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
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CLIMATOLOGICAL DATA

ENGLISH UNITS

1975-1976

State and Station	Pressure		Temperature										Precipitation				Wind		No. of days (sunrise to sunset)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
	Station	Sea level	Average					Departure from normal					Highest					Lowest					Date		Resultant direction	Speed	Fastest mile	Direction	Date	Partly cloudy 4-7	Cloudy 8-10	5 or more																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
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Data from airport unless otherwise specified. U indicates Urban, R indicates Rural, sites.

Precipitation data in column headed "Greatest in 24 hours" are computed on a 24-hour basis without regard to calendar day - data may include precipitation with a measurable amount from the last day of the previous month or the first day of the following month.

Wind directions under resultant direction are in tens of degrees.

Value entered in column "Fastest Mile" is the highest observed 1-minute wind speed when the direction is in tens of degrees. These stations are not equipped with a recording anemometer from which "Fastest Mile" data can be evaluated.

B Number of days maximum 70° F. or above for Alaskan Stations.

Y Peak Gust.

+ And also on an earlier date or dates.

Ø Station pressures apply to elevations shown in the "Elevations - Station Pressure" table of the annual issue of this publication.

V Sun below horizon January 1-23, inclusive.

X Sun below horizon January 1-17, inclusive.

METRIC UNITS

JANUARY 1970

CLIMATOLOGICAL DATA

METRIC UNITS

January 1976

State and Station	Pressure		Temperature					Precipitation				Wind		No. of days with rain or snow	Sky cover, tenths	Possible sunshine
	Station	Sea level	Average maximum		Average minimum		Departure from normal	Highest	Date	Lowest	Date	Max 32.2 °C or above	Min 0 °C or lower	No. of days	Average dew point	Average relative humidity
			C.	F.	C.	F.										
COLORADO	2297	770.1	2.2	-19.4	-8.3	17.8	32.0	12.8	27	-32.8	6	0	31	-11.7	54	
	1873	1018.6	4.4	-8.9	-2.1	30.2	86.4	19.4	27	-22.2	6	0	31	-11.7	54	
	1610	833.4	7.2	-8.9	0.8	33.6	92.5	20.6	27	-23.3	7	0	29	-10.0	57	
	1476	894.4	3.9	-6.7	-1.5	28.7	83.7	12.8	27	-16.7	6	0	31	-8.9	61	
	1428	854.4	8.9	-9.4	-0.2	30.0	86.0	22.2	27	-23.9	6	0	31	-9.4	56	
CONNECTICUT	2	1015.6	-0.6	-8.9	-4.5	23.5	74.3	8.3	26	-15.6	22	0	30	-12.8	53	
	52	1007.8	-3.3	-13.3	-8.4	16.9	62.4	7.8	29	-22.2	23	0	30	-13.3	66	
DELAWARE	23	1014.6	0.0	-8.3	-4.2	24.9	76.8	12.2	29	-18.9	9	0	30	-8.9	69	
	3	1016.3	3.3	-5.6	-1.1	30.8	87.4	16.7	29	-15.6	9	0	29	-8.3	58	
DIST. OF COLUMBIA	88	1006.4	1.1	-10.6	-4.6	28.3	82.9	15.0	29	-22.2	9	0	29	-8.3	74	
	4	1019.0	12.8	4.4	8.6	48.3	118.9	20.6	26	-5.6	8	0	6	6.7	70	
FLORIDA	9	1019.0	17.2	7.8	12.5	54.5	100.3	28.3	29	-2.8	10	0	4	6.7	70	
	5	1019.0	19.4	9.4	14.5	58.1	108.6	26.7	29	0.0	10	0	4	9.4	76	
	7	1019.6	20.6	6.9	19.9	67.8	154.0	26.7	29	-2.8	9	0	4	9.4	76	
	1	1017.6	22.2	16.7	19.4	66.9	165.9	26.7	29	-2.8	9	0	4	9.4	76	
	65	1018.4	17.2	7.2	12.4	54.3	108.1	27.2	28	-3.9	10	0	4	15.0	77	
HAWAII	2	1018.3	22.2	12.8	17.7	63.9	160.1	27.8	30	-1.9	10	0	4	12.2	72	
	33	1015.6	17.8	7.8	12.8	55.0	109.0	27.8	30	-1.9	10	0	4	12.2	72	
	34	1016.9	12.1	5.9	8.0	46.4	114.4	23.3	29	-6.1	9	0	4	2.2	70	
	17	1018.6	12.1	5.9	8.0	46.4	114.4	23.3	29	-6.1	9	0	4	2.2	70	
	6	1019.3	17.8	6.7	12.2	54.0	109.6	27.2	30	-1.9	10	0	4	12.2	72	
GEORGIA	5	1018.0	21.7	10.0	15.8	60.4	142.9	28.3	30	-1.9	10	0	1	10.6	74	
	244	990.2	8.3	-2.8	2.7	28.9	84.0	21.1	27	-15.6	9	0	21	-4.4	63	
	308	993.1	10.0	-3.3	2.2	36.0	94.8	20.6	28	-16.7	9	0	23	-5.0	63	
	111	1014.8	10.0	-3.3	3.1	37.6	100.0	23.0	29	-15.0	9	0	24	-3.3	69	
	108	1008.1	10.0	-3.3	4.0	39.2	102.6	23.0	29	-15.0	9	0	24	-3.3	69	
IDAHO	198	1008.1	10.0	-3.3	4.0	39.2	102.6	23.0	29	-15.0	9	0	24	-3.3	69	
	198	1008.1	10.0	-3.3	4.0	39.2	102.6	23.0	29	-15.0	9	0	24	-3.3	69	
	198	1008.1	10.0	-3.3	4.0	39.2	102.6	23.0	29	-15.0	9	0	24	-3.3	69	
	198	1008.1	10.0	-3.3	4.0	39.2	102.6	23.0	29	-15.0	9	0	24	-3.3	69	
	198	1008.1	10.0	-3.3	4.0	39.2	102.6	23.0	29	-15.0	9	0	24	-3.3	69	
ILLINOIS	8	1012.9	27.2	17.2	22.2	72.0	171.6	31.1	13	15.0	11	0	0	16.7	74	
	2	1013.5	27.2	17.2	22.2	72.0	171.6	31.1	13	15.0	11	0	0	16.7	74	
	15	1013.5	27.2	17.2	22.2	72.0	171.6	31.1	13	15.0	11	0	0	16.7	74	
	31	1009.1	25.6	18.3	22.0	71.6	170.7	28.3	19	13.3	10	0	0	17.8	76	
	865	917.0	5.6	-0.6	2.3	36.1	93.4	13.3	24	-15.0	7	0	14	-2.2	72	
INDIANA	431	1007.8	4.4	-1.7	1.3	34.3	93.7	12.2	14	-8.9	7	0	20	-6.1	69	
	1358	863.5	2.2	-4.4	-1.2	28.0	82.4	12.6	23	-23.3	5	0	15	-6.1	69	
	96	993.2	3.3	-6.1	-1.4	29.3	84.7	10.6	28	-19.4	21	0	27	-12.2	73	
	201	994.9	4.4	-1.7	-0.8	30.4	86.7	10.6	28	-19.4	21	0	27	-12.2	73	
	185	994.9	4.4	-1.7	-0.8	30.4	86.7	10.6	28	-19.4	21	0	27	-12.2	73	
IOWA	177	997.3	10.0	-3.3	10.0	50.0	122.0	12.8	28	-26.1	21	0	30	-12.8	70	
	199	995.3	10.0	-3.3	10.0	50.0	122.0	12.8	28	-26.1	21	0	30	-12.8	70	
	221	990.2	1018.8	-6.1	-15.0	-10.8	-5.3	5.6	31	-30.0	21	0	30	-13.9	74	
	179	997.3	1020.6	-3.3	-12.2	-7.8	-5.8	19.4	28	-25.6	6	0	29	-11.7	71	
	116	1006.8	1021.5	1.1	-10.0	-4.4	25.7	20.6	28	-20.6	21	0	29	-10.0	65	

See footnotes at end of table

CLIMATOLOGICAL DATA

METRIC UNITS

JANUARY 1970

[illegible]

See footnotes at end of table

CLIMATOLOGICAL DATA

METRIC UNITS

JANUARY 1977

State and Station	Elevation (ground)	Station Q	Sea level	Pressure				Temperature						Precipitation				Wind				No. of days (sunrise to sunset)	Sky cover, tenths (sunrise to sunset)	Post-December 1966																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
				Average maximum	Average minimum	Average	Departure from normal	Highest	Lowest	Date	Max 32.2° or above	Min 0° or lower	Average dew point	Average relative humidity	Total		Departure from normal	Greatest in 24 hours	25 mm or more	No. of days	With thunderstorms				Maximum depth on ground	Residual speed	Residual direction	Speed	Direction	Fastest mile in 16 kilometers	Date	Clear 0-3	Partly cloudy 4-7	(Cloud, 8-10)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
															C	C																			C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C

METRIC UNITS

JANUARY

See footnotes at end of table

METRIC UNITS

See footnotes at end of table

CLIMATOLOGICAL DATA

METRIC UNITS

State and Station	Elevation (ground)	Pressure		Temperature										Precipitation						Wind				No. of days (sunrise to sunset)		Sky cover, tenths (sunrise to sunset)												
		Station	Sea level	Average maximum	Average minimum	Average	Departure from normal	Highest	Lowest	Date	No. of days		Average dew point	Average relative humidity	Total	Departure from normal	Greatest in 24 hours	No. of days		Snow, Sleet	Maximum depth on ground	Resultant speed	Resultant direction	Speed (1.6 kilometers)	Direction		Date	Clear, 0-3	Partly cloudy, 4-7	Cloudy, 8-10								
											Max 32° C or above	Min. 0° C or lower						25 mm. or more	With thunderstorms												Mm.	Mm.	Mm.	Mm.	Mm.	Mm.	M.p.s.	M.p.s.
WASHINGTON	M.	Mb.		C.	C.	C.	C.	C.	C.																													
	321	978.7	1018.6	1.7	-5.6	-2.0	0.5	8.9	31	-16.7	11	0	29	-5.6	76	93	63	31	17	0	381	152	1.7	27	11.2	27	31	3	4	24	8.3							
WEST INDIES																																						
	4	1014.9	1017.3	27.6	21.7	24.7	1.2	30.0	13	18.9	5	0	0	19.4	74	138	51	67	13	0	0	0	0	2.4	11	12.1	NE	11	9	16	10	5.8						
	9			27.8	22.8	25.3	-0.4	29.4	6+	19.4	11+	0	0		75	-45	37	13	2	0	0	0	0	5	16	10	5	26	8.9	5.1	6.4							
WEST VIRGINIA																																						
	763	927.2	1020.0	0.6	-9.4	-4.4	-5.3	15.6	29	-22.8	9	0	30	-8.9	72	54	-55	18	18	0	480	178	3.1	27	13.9	24	25	4	7	20	7.7							
	286	984.1	1019.6	3.3	-7.2	-1.9	-4.5	21.7	28	-21.7	22	0	29	-8.3	62	29	-81	10	14	0	320	127	2.3	24	10.3	24	29+	2	6	23	8.1							
	600	944.8		-1.1	-12.2	-6.7	-6.9	15.0	29	-27.2	22	0	31		39	-53	12	22		508	229	0	5	26	8.9	0	5	26	8.9	8.9								
WISCONSIN																																						
	252	986.5	1019.8	2.2	-7.8	-2.6	-5.2	20.6	28	-21.1	22	0	27	-7.2	73	28	-64	9	15	1	234	102	2.2	24	10.7	27	20	5	6	20	7.6							
	187			1.7	-8.3	-3.4	-4.8	20.0	28	-20.0	22	0	29		29	-55	11	12		191	102			14.3	W	20					2.6							
WYOMING																																						
	208	990.5	1017.7	-8.9	-18.9	-13.8	-5.3	1.7	31+	-30.0	19	0	31	-17.2	72	19	-11	5	12	0	249	330	2.9	27	12.5	NE	25+	7	8	16	6.5	51						
	198	993.9		-7.8	-18.3	-12.9	-4.3	4.4	31	-35.6	19	0	30	-16.1	74	14	-16		9	0	196		1.0	27														
	262	985.1	1018.4	-3.8	-16.7	-12.3	-4.2	3.3	31+	-29.4	21+	0	31	-15.0	75	11	-24	3	11	0	163	305	1.8	28	12.1	N	29+	10	5	16	6.1	48						
WYOMING																																						
	205	991.5	1018.0	-6.7	-13.9	-10.4	-4.1	4.4	28	-25.0	19	0	31	-14.4	72	10	-36	3	12	0	152	178	3.5	27	12.1	NW	8	8	15	6.3	51							
WYOMING																																						
	1627	834.1	1017.2	1.7	-11.1	-4.8	0.1	13.3	23	-30.6	8+	0	29	-10.0	68	15	1	8	6	0	229	127	4.9	25	19.2	28	24	3	12	16	7.2							
	1867	807.3	1015.5	4.4	-7.8	-1.9	1.8	15.6	27	-21.7	8+	0	26	-12.2	47	3	-11	2	0	30	25	5.9	28	24.6	NW	24	7	7	17	6.6	56							
	1696	825.6	1017.1	2.2	-10.5	-4.2	2.8	14.4	23	-25.0	5	0	28	-11.7	60	2	-10	1	3	0	48	76	1.0	25	21.9	W	26	4	10	17	6.7	65						
WYOMING																																						
	1238	876.4	1018.6	-0.6	-13.3	-7.1	-1.2	12.2	23	-25.6	5	0	31	-12.2	68	18	2	10	10	0	292	203	2.1	30	17.0	NW	27	3	7	21	7.9	55						

Data from airport unless otherwise specified. U indicates Urban, R indicates Rural, S indicates.

Precipitation data in column headed "Greatest in 24 hours" are computed on a 24-hour basis without regard to calendar day - data may include precipitation with a measurable amount from the last day of the previous month or the first day of the following month.

Wind directions under resultant direction are in tens of degrees.

Value entered in column "Fastest Mile" is the highest observed 1-minute wind speed when the direction is in tens of degrees. These stations are not equipped with a recording anemometer from which "Fastest Mile" data can be evaluated.

B Number of days maximum 21.1°C. or above for Alaskan Stations.

Y Peak Gust.

+ And also on an earlier date or dates.

Ø Station pressures apply to elevations shown in the "Elevations - Station Pressure" table of the annual issue of this publication.

Data in this table are obtained by conversion from data in the English Units table.

V Sun below horizon January 1-23, inclusive.

X Sun below horizon January 1-17, inclusive.

JANUARY 1976

Data from airport unless otherwise specified.

COOLING DEGREE DAYS

(Base 65°F.)

State and station	Current season			State and station	Current season			State and station	Current season			State and station	Current season			
	This month	Period January through this month	Normals January through this month		This month	Period January through this month	Normals January through this month		This month	Period January through this month	Normals January through this month		This month	Period January through this month	Normals January through this month	
ALABAMA				HAWAII				NEBRASKA				SOUTH DAKOTA				
BIRMINGHAM	0	0		HILO	223	223		NORTH PLATTE	0	0		ABERDEEN	0	0		
MOBILE	6	6		HONOLULU	293	293		OMAHA	0	0		HURON	0	0		
MONTGOMERY	0	0		KAHULUI	212	212		SCOTT'S BLUFF	0	0		BAILEY CITY	0	0		
				LIHUE	211	211		VALENTINE	0	0		SIOUX FALLS	0	0		
ALASKA				IDAHO				NEVADA				TENNESSEE				
ANCHORAGE	0	0		BOISE	0	0		ELKO	0	0		BRISTOL	0	0		
ANNETTE	0	0		EMERSON	0	0		ELY	0	0		CHATTANOOGA	0	0		
BARRON	0	0		FOYATVILLE	0	0		LAS VEGAS	0	0		KNOXVILLE	0	0		
BARTER ISLAND	0	0		ILLINOIS				RENO	0	0		MEMPHIS	0	0		
BEVEL	0	0		CAIRO	0	0		WINNEMUCCA	0	0		NASHVILLE	0	0		
BEVILLE	0	0		CHICAGO O HARE	0	0						OAK RIDGE R	0	0		
BIG DELTA	0	0		CHICAGO MIDWAY	0	0		NEW HAMPSHIRE								
BOLE HAT	0	0		MOLINE	0	0		CONCORD	0	0		TEXAS				
FAIRBANKS	0	0		POKESFIRE	0	0		MT WASHINGTON OBS	0	0		ABILENE	2	2		
GILKANA	0	0		SPRINGFIELD	0	0						AMARILLO	0	0		
HOMER	0	0						NEW JERSEY				AUSTIN	0	0		
ILLIAMNA	0	0		INDIANA				ATLANTIC CITY	0	0		BROWNSVILLE	15	15		
JANNA	0	0		EVANSVILLE	0	0		ATLANTIC CITY U	0	0		CORPUS CHRISTI	7	7		
KING ALMON	0	0		FORT WAYNE	0	0		NEWARK	0	0		DALLAS	9	9		
KOLZEBE	0	0		INDIANAPOLIS	0	0		TRENTON U	0	0		DEL RIO	3	3		
MC GRATH	0	0		SOUTH BEND	0	0						EL PASO	0	0		
MOHE	0	0		IOWA				NEW MEXICO				FORT WORTH	5	5		
ST. PAUL ISLAND	0	0		BURLINGTON	0	0		ALBUQUERQUE	0	0		GALVESTON U	0	0		
SUMMIT	0	0		DES MOINES	0	0		CLAYTON	0	0		HOUSTON	18	18		
TALKEETNA	0	0		DUBUQUE	0	0		ROSWELL	0	0		LUBBOCK	7	7		
UNALAKLEET	0	0		SIOUX CITY	0	0						MIDLAND	0	0		
YAKUTAT	0	0		WATERLOO	0	0		NEW YORK				PORT ARTHUR	13	13		
								ALBANY	0	0		SAN ANGELO	6	6		
ARIZONA				KANSAS				BINGHAMTON	0	0		SAN ANTONIO	3	3		
FLAGSTAFF	0	0		CONCORDIA	0	0		BUFFALO	0	0		VICTORIA	19	19		
PHOENIX	0	0		DODGE CITY	0	0		NEW YORK U	0	0		WACO	4	4		
TUCSON	0	0		GOODLAND	0	0		NEW YORK KENNEDY	0	0		WICHITA FALLS	0	0		
WINGLOW	0	0		TOPEKA	0	0		ROCHESTER	0	0						
YUMA	0	0		WICHITA	0	0		SYRACUSE	0	0		UTAH				
												MILFORD	0	0		
ARKANSAS				KENTUCKY				NORTH CAROLINA				SALT LAKE CITY	0	0		
FORT SMITH	0	0		COVINGTON	0	0		ASHEVILLE	0	0		WENDOVER	0	0		
LITTLE ROCK	0	0		LEXINGTON	0	0		CAPE MAYTERAS R	0	0		VERMONT				
				LOUISVILLE	0	0		CHARLOTTE	0	0		BURLINGTON	0	0		
CALIFORNIA							GREENSBORO	0	0							
BAKERFIELD	2	2		LOUISIANA			RALEIGH	0	0		VIRGINIA					
BISHOP	0	0		ALEXANDRIA	9	9		WILMINGTON	0	0		LYNCHBURG	0	0		
BLUE CANYON	0	0		BATON ROUGE	16	16						NORFOLK	1	1		
EUREKA	0	0		LAKE CHARLES	7	7		NORTH DAKOTA				RICHMOND	0	0		
FRESNO	0	0		NEW ORLEANS	20	20		BISMARCK	0	0		WALLACE	0	0		
LONG BEACH	0	0		SHREVEPORT	9	9		FARGO	0	0		WALLOPS ISLAND	0	0		
LOS ANGELES	0	0					WILLISTON	0	0							
LOS ANGELES U	0	0		MAINE								WASHINGTON	0	0		
MT SHASTA R	0	0		CARIBOU	0	0		OHIO				OLYMPIA	0	0		
OAKLAND	0	0		PORTLAND	0	0		AKRON	0	0		QUILLAYUTE	0	0		
RED BLUFF	0	0					CINCINNATI OBS	0	0		SEATTLE TACOMA	0	0			
SACRAMENTO	0	0		MARYLAND			CLEVELAND	0	0		SPOKANE	0	0			
SANDBERG R	0	0		BALTIMORE	0	0	COLUMBUS	0	0		STAMPEDE PASS R	0	0			
SAN DIEGO	0	0					DAYTON	0	0		WALLA WALLA U	0	0			
SAN FRANCISCO	0	0		MASSACHUSETTS			MANSFIELD	0	0		YAKIMA	0	0			
SAN FRANCISCO U	0	0		BLUE HILL OBS R	0	0	TOLEDO	0	0							
SANTA MARIA	0	0		WORCESTER	0	0	YOUNGSTOWN	0	0		WEST INDIES					
STOCKTON	0	0										JAN JUAN P.S.	392	392		
				MICHIGAN			OKLAHOMA					SWAN ISLAND	398	398		
COLORADO				ALPENA	0	0	OKLAHOMA CITY	0	0							
ALAMOSA	0	0		DETROIT	0	0	TULSA	0	0		WEST VIRGINIA					
COLORADO SPRINGS	0	0		DETROIT METRO	0	0		OREGON				BECKLEY	0	0		
DENVER	0	0		FLINT	0	0		ASTORIA	0	0		CHARLESTON	0	0		
GRAND JUNCTION	0	0		GRAND RAPIDS	0	0		BURNS U	0	0		ELKINS	0	0		
PUEBLO	0	0		HOUGHTON LAKE	0	0		EUGENE	0	0		HUNTINGTON	0	0		
				LANSING	0	0		FRAMINGHAM	0	0		PARKERSBURG U	0	0		
CONNECTICUT				MARQUETTE U	0	0		MEDFORD	0	0						
BRIDGEPORT	0	0		MUSKEGON	0	0		PENDELTON	0	0		WILSON	0	0		
HARTFORD	0	0		SAULT STE MARIE	0	0		PORTLAND	0	0		GREEN BAY	0	0		
							SALEM	0	0		LA CROSSE	0	0			
DELAWARE				MINNESOTA			SEXTON SUMMIT R	0	0		MADISON	0	0			
WILMINGTON	0	0		DULUTH	0	0		PACIFIC AREA				MILWAUKEE	0	0		
				INTERNATIONAL FALLS	0	0		GUAM TAGUAC R	473	473						
DIST. OF COLUMBIA				MINNEAPOLIS	0	0		JOHNSTON	425	425		WYOMING				
WASHINGTON DULLES	0	0		ROCHESTER	0	0		KOROR R	519	519		CASPER	0	0		
WASHINGTON NATL	0	0		ST CLOUD	0	0		KWAJALEIN	547	547		CHEYENNE	0	0		
				MISSISSIPPI				MADAGASCAR	512	512		LANDER	0	0		
FLORIDA				JACKSON	7	7		PAGO PAGO	503	503		SHERIDAN	0	0		
APALACHICOLA U	13	13		MERIDIAN	4	4		PONAPE R	494	494						
DAYTONA BEACH	18	18						TRUK MOEN ISLAND	516	516						
FORT MYERS	5	5		MISSOURI				WAKE	401	401						
JACKSONVILLE	113	113		COLUMBIA	0	0		YAP R	496	496						
KEY WEST	15	15		KANSAS CITY	0	0										
LAKELAND U	85	85		ST JOSEPH	0	0		PENNSYLVANIA								
MIAMI	19	19		SPRINGFIELD	0	0		ALLENTOWN	0	0						
ORLANDO	4	4					ERIE	0	0							
PENSACOLA	12	12		MONTANA			HARRISBURG	0	0							
TALLAHASSEE	42	42		BILLINGS	0	0	PHILADELPHIA	0	0							
TAMPA				GLASGOW	0	0	PITTSBURGH	0	0							
WEST PALM BEACH				GREAT FALLS	0	0	PITTSBURGH U	0	0							
				HAVRE	0	0	SCRANTON	0	0							
GEORGIA				HELENA	0	0	WILLIAMSPORT	0	0							
ATHENS	0	0		KALISPELL	0	0		RHODE ISLAND								
ATLANTA	0	0		MILES CITY	0	0		BLOCK ISLAND	0	0						
AUGUSTA	0	0		MISSOULA	0	0		PROVIDENCE	0	0						
COLUMBUS	0	0														
MACON	0	0		NEBRASKA												
ROME	0	0		GRAND ISLAND	0	0										
SAVANNAH	4	4		LINCOLN	0	0										
				NORFOLK	0	0										

Data from airport unless otherwise specified.
U indicates Urban, R indicates Rural, sites.

STORM SUMMARY

JANUARY 1970

STATE	TORNADOES					HAILSTORMS				WINDSTORMS				LIGHTNING				# HEAVY SNOWSTORMS AND BLIZZARDS				# ICE STORMS				Ø ALL OTHER			
	NUMBER	DAYS	DEATHS	INJURIES	† DAMAGE	DEATHS	INJURIES	† DAMAGE		DEATHS	INJURIES	† DAMAGE		DEATHS	INJURIES	† DAMAGE		DEATHS	INJURIES	† DAMAGE		DEATHS	INJURIES	† DAMAGE					
								PROP. ERTY	CROPS			PROP. ERTY	CROPS			PROP. ERTY	CROPS			PROP. ERTY	CROPS								
Alabama *																													
Alaska *																													
Arizona *																													
Arkansas *																													
California																										5	0	6	0
Colorado *																													
Connecticut *																													
Delaware																													
Florida	6	3	0	4	5					0	0	2	0													1	0	5	0
Georgia	1	1	0	0	4											0	?	5	0							2	0	5	0
Hawaii																													
Idaho																0	0	5	0										
Illinois																													
Indiana																													
Iowa *																													
Kansas *																													
Kentucky *																													
Louisiana	1	1	0	0	0																								
Maine *																													
Maryland																													
Massachusetts																													
Michigan																													
Minnesota *																													
Mississippi																													
Missouri *																													
Montana *																													
Nebraska *																													
Nevada																													
New Hampshire																													
New Jersey *																													
New Mexico *																													
New York																													
North Carolina																													
North Dakota *																													
Ohio																													
Oklahoma																													
Oregon																													
Pacific Area *																													
Pennsylvania																													
Puerto Rico *																													
Rhode Island *																													
South Carolina																													
South Dakota *																													
Tennessee																													
Texas	1	1	0	0	3																								
Utah *																													
Vermont																													
U. S. Virgin Is. *																													
Virginia *																													
Washington																													
West Virginia *																													
Wisconsin *																													
Wyoming *																													

S Several

* No occurrence of storms or unusual weather phenomena.

‡ Includes heavy sleet storm.

Freezing drizzle and freezing rain, commonly known as glaze.

Ø For breakdown of "All Others", and for detailed listing of other storms, see the Environmental Data Service, ESSA, monthly publication STORM DATA.

† Storm damages are placed in categories varying from 1 to 9 as follows:

- 1 Less than \$50
- 2 \$50 to \$500
- 3 \$500 to \$5,000
- 4 \$5,000 to \$50,000
- 5 \$50,000 to \$500,000
- 6 \$500,000 to \$5,000,000
- 7 \$5,000,000 to \$50,000,000
- 8 \$50,000,000 to \$500,000,000
- 9 \$500,000,000 to \$5,000,000,000

GENERAL SUMMARY OF RIVER AND FLOOD CONDITIONS

JANUARY 1970

Elmer R. Nelson, Office of Hydrology

The most damaging floods during January occurred in the Sacramento Basin in California. The damages were estimated in excess of \$25 million and the death toll in excess of 20. River levels reached on the Sacramento during January were the highest since the construction of Shasta Dam.

ST. LAWRENCE DRAINAGE

Lake Erie.--Local flooding resulted from an ice jam on Cazenovia Creek in West Seneca, N. Y., on the evening of the 29th. Mild weather the previous 2 days plus some rain sent unusual amounts of water down Cazenovia Creek which piled up behind an ice dam formed by jammed, broken-up ice. The creek normally 18 inches deep rose to 20 ft. The thaw caused some minor street and cellar flooding in scattered areas of Erie County from surface runoff by melting snow and some rain. Twelve families in West Seneca were evacuated from their homes. Heavy snowpack remained in many areas at the end of the month.

Heavy rain (over 1 inch) on the 29th caused the St. Marys River at Decatur, Ind., to rise 1.5 ft. above flood stage on the 30th. It receded within its banks on the 31st.

Minor flooding occurred on the Sandusky River at Fremont, Ohio, on Jan. 29 to Feb. 2. This overflow was due to moderate rain combined with snowmelt and an ice jam. No property damage was reported, although a park area and several secondary streets in Fremont were covered with water on the 30th and 31st. The city of Fremont kept workers on standby duty for the purpose of sand bagging to protect the business district if that became necessary.

ATLANTIC SLOPE DRAINAGE

The Charles River at Charles River Valley, Mass., continued in flood from Dec. 27 to Jan 3. The crest on Dec. 31 was 0.9 ft. above flood stage. This flooding was due to heavy rain on Dec. 26-28.

A mixture of rain, freezing rain, and sleet ranging from 0.5 inch to 1.25 inches on Dec. 30 caused Rancocas Creek at Pemberton, N. J., to rise above flood stage on Dec. 31. It receded within its banks on Jan. 1, after cresting 1 to 1.5 ft. above flood level.

Precipitation and temperatures were well below normal over the entire Delaware Valley and New Jersey during January. The Delaware Valley above Trenton, N. J., averaged 0.84 inch or 27% of normal. Below Trenton, precipitation ranged from an average of 0.8 inch or 22% of normal, in the northern sections to 1.2 inches or 33% of normal, in southern portions. The average monthly temperature was one of the coldest on record. At Trenton, N. J., the monthly average temperature was 7.6° below normal or the coldest since 1945. Northern New Jersey, much of eastern Pennsylvania, and southeastern New York averaged about 9° to 10° below normal during January. The abnormally cold January resulted in ice-covered rivers in many sections of New Jersey and eastern Pennsylvania. At Trenton, N. J., the ice extended northward to Lambertville, which was the most ice in this area in about 30 years.

Heavy rainfall on Dec. 29-31 caused moderate flooding in the Upper James Basin in Virginia on Dec. 31 to Jan. 1. In the lower basin at and below Bremono Bluff, crests a few feet above flood stage were reached on the 2d and 3d. At Holcombs Rock and Scottsville, Va., crests were slightly below flood level. Rainfall averaged about 1.75 inches in the upper basin and about 1 inch

in the lower basin in combination with the melting of several inches of snow in the upper basin. Damages were minor and mostly from erosion.

Minor flooding occurred on the Satilla River near Atkinson, Ga., on the 17th-22d. The crest on the 19th was 0.3 ft. above flood stage.

EAST GULF OF MEXICO DRAINAGE

Minor flooding occurred on the Withlatchoochee River at Croom and Holder, Fla., during the latter half of the month. No reports of damage were received.

Heavy rain on Dec. 30-31 caused flooding in the Tombigbee Basin in Mississippi and Alabama between Dec. 30 and Jan. 14. The rain averaged 5 inches at headwater stations. Moderate overflows occurred in the upper reaches and more serious flooding in the middle sector of the Tombigbee River. The damages were estimated at \$1.6 million.

The Pearl River at Jackson, Miss., rose above flood stage on Dec. 31. Increased discharges from Ross Barnett Reservoir kept the Pearl River above flood stage at Jackson, Miss., for the first 10 days of January. The crest on Jan. 7 was 5 ft. above flood stage. The Pearl rose above flood stage at Bogalusa, La., on Jan. 7 and continued in flood to Jan. 16. Flooding was confined to low-lying farmland and timberland adjacent to the river.

MISSISSIPPI SYSTEM

Upper Mississippi Basin.--Although the January total snowfall in the Upper Mississippi Basin above Guttenberg, Iowa, was near normal, the water content was only one-half to two-thirds of the normal January precipitation. For the most part, precipitation averaged less than 0.50 inch in Minnesota, 0.25 to 1 inch in Wisconsin (greatest over northeastern quarter), and about 0.35 inch in northeast Iowa.

Minor flooding occurred on the Kaskaskia River at Vandalia, Ill., on Jan. 30-31. The crest on Jan. 30 was 0.7 ft. above flood stage. This overflow was due to snowmelt runoff, resulting from mild weather (temperatures in the 60's and 70's) late in January. No damage of consequence resulted from the flooding.

Ohio Basin.--The flooding in the headwaters of the Monongahelia Basin in West Virginia during the latter part of December and the first part of January was due to rainfall in excess of 2 inches plus snowmelt. The heaviest intensity of rain occurred during the afternoon and night on Dec. 30. There was partial melting of the heavy snow cover that covered the basin on Dec. 30-31. The crests ranged from 1.6 ft. above flood stage on the West Fork to nearly 6 ft. above flood stage on the Tygart.

Ice gorges formed on the Allegheny River with most of the Allegheny River from Pittsburgh to West Hickory, Pa., either frozen over or full of gorged ice during the last 3 weeks of January. A gorge at Oil City, Pa., and on Oil Creek produced a lot of backwater at Oil City, Pa.

Moderate to severe flooding occurred in the upper Little Kanawha River in West Virginia on Dec. 31 and Jan. 1. The Guyandot River at Branchland, W. Va., crested 3.1 ft. above flood stage on Jan. 1. Minor flooding occurred on the Levisa Fork at Prestonsburg, Ky., on Dec. 31 and Jan. 1. This flooding was due to heavy rainfall on Dec. 29-30 and snowmelt runoff. The rain melted several inches of snow, adding to the precipitation total.

GENERAL SUMMARY OF RIVER AND FLOOD CONDITIONS-Continued

JANUARY 1970

Minor flooding occurred on the Kentucky River at Hazard, Ky., on Jan. 15. No damages were reported.

General rains during the last 3 days of December, totalling nearly 3 inches, caused minor flooding on the Green River in Kentucky. Crests ranged from 0.3 ft. above flood stage at Brownsville to 3.3 ft. above flood stage at Woodbury, Ky.

Rainfall, averaging about 0.75 inch on Jan. 28-29, plus runoff from melting snow caused minor flooding on the Muscatatuck River at Austin, Ind., on Jan. 30, and at scattered points along the White River. Little or no damage resulted from the overflow of low-lying fields.

Major flooding developed along the upper Cumberland River in southeast Kentucky from the headwaters to the upper reaches of the Wolf Creek Reservoir on Dec. 30. Crests in the upper Cumberland River on Jan. 1 and 2 were very near those of the major flood of Mar. 1963. In the lower portion of the basin, the Red River at Port Royal, Tenn., crested 1.8 ft. above flood stage on Dec. 30 and the Harpeth River at Kingston Springs, Tenn., crested 4.3 ft. above flood stage on Dec. 31. This major overflow resulted from 2 to 5 inches of rain on Dec. 28-30. Considerable flood damage occurred in southeastern Kentucky with preliminary estimates of damage placed at \$1.2 million. Only minor damage occurred on the Harpeth and Red Rivers in Tennessee.

Heavy rain on Dec. 28-30 caused 8.5 to 12.7 ft. of overflow on the Elk and Duck Rivers in Tennessee during the latter part of December and early January. Several families in low and unprotected areas in Shelbyville, Tenn., on the Duck River were evacuated. Only minor damage resulted from the high water. The main stem of the Tennessee was in flood at Whitesburg and Florence, Ala., on Dec. 31 to Jan. 5 and at Gilbertsville, Ky., from Dec. 31 to Jan. 9. Flooding at Savannah, Tenn., was confined to the first 6 days of January. Crests during January ranged from 3.2 ft. above flood stage at Florence to 9.3 ft. above flood stage at Whitesburg, Ala.

Minor flooding occurred at scattered points along the lower Ohio River on Jan. 4-8. Crests on the 5th to the 7th ranged from 0.3 ft. above flood stage at Shawneetown, Ill., to 2 ft. above flood stage at Newburgh, Ind. No damages were reported.

White Basin.--The flooding on the Cache River at Patterson, Ark., on Dec. 31 to Jan. 26 was due to heavy rain (4 to 5 inches) on Dec. 28-31. The crest on Jan. 4 was 2.2 ft. above flood stage. Only bottom land along the river was flooded. Damage, if any, was minor.

Red Basin.--Minor flooding occurred on the Sulphur River in northeastern Texas during the latter part of December and the first part of January. No damages resulted from the overflow.

Minor flooding occurred on the Ouachita River at Camden, Ark., on Jan. 6-11. Only low alluvial land along the river was inundated. Damage, if any, was light.

WEST GULF OF MEXICO DRAINAGE

Minor flooding occurred on the Calcasieu River at Hineston, La., on Dec. 31 to Jan. 11. The crest on Jan. 3 was 2.7 ft. above flood stage. No damage was reported from the overflow.

The Sabine River at Mineola, Tex., was out of its banks from Dec. 30 to Jan. 4. The crest on Jan. 2 was 2.1 ft. above flood stage.

GREAT BASIN

Local flooding occurred on the Truckee River at Vista, Nev., on Jan. 22, 24, and 27. The highest crest (11.3 ft.) occurred on the 22d with a flow of 7630 c.f.s. Flooding in the Vista area begins with a flow of over 6,000 c.f.s. In the Reno, Nev., area a flow in excess of 10,000 c.f.s. causes overflow. The highest flow at Reno was 7,316 c.f.s. on the 22d.

Some local flooding occurred on the Carson River from Dayton, Nev., to Lahontan Reservoir on the 18th and 22d. The higher crest (6.4 ft.) occurred on the 18th with a flow of 3,426 c.f.s. Flow above 3,000 c.f.s. causes overflow in this area.

Local flooding occurred along the Susan River in Lassen County, Calif., on the 16th. Susanville, Calif., had high water for a period of 6 hours on the evening of the 16th. There was also some overflow in the lowland area near Litchfield and between Susanville. Some flooding was reported on Piute Creek in west Susanville where the ball park was flooded.

PACIFIC SLOPE DRAINAGE

San Joaquin Basin.--A major crest moved down the lower San Joaquin River and its tributaries during January. Relatively high flows were sustained at most points during the remainder of the month by general rainfall. Precipitation during January ranged from 150% to over 200% of normal.

Warning stages were reached or exceeded at several points in the basin. The only stream to exceed flood stage was the Stanislaus at Orange Blosson, Calif. Peak flows on the tributaries were effectively reduced by those reservoirs where flood control space had been allotted.

Sacramento Basin.--Several major rises moved down the Sacramento River during January. Flood stages were exceeded at many points and warning stages at Colusa Bridge, Calif., and at all weirs. River levels reached on the Sacramento during January were the highest since the construction of Shasta Dam and natural flows may have been the highest since records began. The largest rise occurred on the 24th on the upper Sacramento where the river at Ord Ferry, Calif., exceeded the warning stage by over 9 ft. As the lower Sacramento approached the danger level of 29 ft. at Sacramento, it became necessary to open six gates of the Sacramento Weir on the 18th. Two additional gates were opened on the 23d and two on the 24th. These gates remained open through the rest of the month.

The Yolo Bypass islands were flooded by the 25th. Early warnings by the Weather Bureau permitted evacuation of all people and farming equipment from the bypass.

Precipitation during January over the Sacramento Basin ranged from 200% to nearly 300% of normal. There was very little snow accumulation by the end of the month as the storms during January were quite warm, with snow levels consistently near the 7,000 to 8,000-foot level.

The use of flood control space in the major reservoirs effectively reduced flood peaks.

A preliminary estimate of flood damage in the Sacramento Basin by the Corps of Engineers is in excess of \$25 million. The death toll from this season's high water is in excess of 20, none of these have been attributed to a lack of warning by the Weather Bureau.

Russian Basin.--The Russian River at Guerneville, Calif., reached flood stage on four different occasions

GENERAL SUMMARY OF RIVER AND FLOOD CONDITIONS-Continued

JANUARY 1970

during January. The flooding was due to heavy rainfall which averaged 5 inches on the 8-9th, 4 inches, each, on the 13th, 16th, and 23d, and 6 inches on the 20th-21st. The rainfall during the month ranged from 17.5 inches to 44 inches with an average of over 26 inches. The most significant rise occurred early on the 21st and, except for about 6 hours on the 23d, the river remained above flood stage at Guerneville for 4.5 days. The crest on the 24th was 9.3 ft. above flood stage. During the last rise, the river rose above flood stage upstream at Healdsburg for 22 hours on the 23d and 24th and at Hopland, Calif., for 7.5 hours on the same dates.

Damage occurred along most of the river, but the major portion of the estimated \$400,000 damage occurred in the resort area between Healdsburg, Calif., and the coast.

Eel Basin.--There were two rises to above flood stage on the Van Duzen River at Bridgeville, Calif., during January. The first rise on the 23d-24th was the more significant and crested 1.5 ft. above flood stage. The Eel River at Fernbridge, Calif., rose above flood stage three times during the last decade of the month. The highest crest occurred on the 24th and was nearly 5 ft. above flood stage.

Smith Basin.--Minor flooding occurred on the Smith River at Crescent City, Calif., on the 22d. No damage was reported.

Rogue and Coquille Basins.--Moderate to heavy rain, averaging 1 to 2 inches per day, occurred over much of the area from the 16th to the 27th. The Rogue River rose above flood stage at Raygold, Oreg., twice during the last 10 days of the month. The higher crest occurred on the 27th and was 1.2 ft. above flood stage at Raygold and 0.2 ft. above flood stage at Grants Pass, Oreg. Damage was light.

The South Fork of the Coquille River at Myrtle Point, Oreg., rose nearly 6 ft. above flood stage on the 23d and receded within its banks on the 28th. Crests on

the 24th and 27th were slightly lower. Damage consisted mostly of erosion and siltation. Suspension of lumber operations caused losses in wages and production.

Columbia Basin.--January was a warm month and one of the wettest on record for the Columbia Basin. Many precipitation stations in Oregon exceeded their long term January records.

The snowpack was generally above average at the higher elevations and below average in the lower areas.

Rainfall amounts (4 to 5 inches) during the third week of January caused several crests above flood stage along the flashy tributaries. The more sluggish Coast Range streams exceeded flood stage from the 17th to the 19th and for the most part kept up a steady rising trend. Flows on the main stem of the Willamette during the third week were held to near bankfull at Harrisburg, Corvallis, Albany, Salem, and Oregon City and to well below bankfull in the Portland-Vancouver harbors and downstream. Heavy rainfall (2.5 to 3 inches) on the 22-23d produced the highest peaks of the month on the Luckiamute, South Yamhill, Pudding, Tualatin, Clackamas, and Johnson Creek. The crests along the lower Willamette ranged from 0.6 ft. above flood stage at Portland, Oreg., on the 24th to 3.5 ft. above flood stage at Oregon City, Oreg., on the 27th. The lower Columbia exceeded flood stage at Vancouver and Longview, Wash., by 1.5 ft. on the 24th. The only effect that the heavy rain on the 23d to the 27th had was to hold tributary and main stem of the Willamette flow nearly steady or produce smaller secondary crests.

Preliminary estimates of flood damage in the Willamette Basin and the Lower Columbia Basin were placed at \$1.2 million by the Corps of Engineers.

Grays Harbor.--The Chehalis River at Centralia, Wash., exceeded flood stage twice during January due to heavy rains. Shallow local overflow occurred with negligible damage. The second crest on the 28th was nearly 2 ft. above flood stage.

FLOOD STAGE DATA

ALL DATES IN JANUARY UNLESS OTHERWISE SPECIFIED

JANUARY 1970

River and station	Flood stage	Above flood stages -dates		Crest *	
		From-	To-	Stage	Date
<u>ATLANTIC COASTAL</u>	<u>Ft.</u>			<u>Ft.</u>	
St. Marys: Decatur, Ind.	15	30	31	16.5	30
Sandusky: Fremont, Ohio	10	29	Feb. 2	13.3	30
<u>ATLANTIC GULF OF MEXICO</u>					
Charles: Charles River Valley, Mass.	4	Dec. 27	3	4.9	Dec. 31
Rancocas Creek: Pemberton, N. J.	2.7	Dec. 31	1	E 4.0	Jan. 1
James: Buchanan, Va.	17	Dec. 31	1	19.8	1
Holcombs Rock, Va.	22	1	1	22.2	1
Bremo Bluff, Va.	19	1	2	23.6	2
Columbia, Va.	18	1	2	#24.0	2
Richmond (Westham), Va.	12	1	3	14.9	2
Richmond (City Locks), Va.	9	2	3	10.7	3
Satilla: Atkinson (nr.), Ga.	13	17	22	13.3	19
<u>EAST GULF OF MEXICO DRAINAGE</u>					
Withlachoochee: Croom, Fla.	8.5	D	D	8.8	16
Holder, Fla.	8	D	D	8.2	23
East Fork Tombigbee: Fulton, Miss.	16	Dec. 30	2	19.2	Dec. 31
Tibbee: Tibbee, Miss.	23	Dec. 31	2	29.1	1
Tombigbee: Columbus, Miss.	29	2	6	35.4	3
Gainesville, Ala.	36	5	12	41.8	9
Jackson L&D, Ala.	43	12	14	43.2	12
Pearl: Jackson, Miss.	18	31	10	23.0	7
Bogalusa, La.	15	7	16	16.8	12
<u>MISSISSIPPI SYSTEM</u>					
<u>Upper Mississippi Basin</u>					
Kaskaskia: Vandalia, Ill.	18	30	31	18.7	30
<u>Ohio Basin</u>					
Tygart: Belington, W. Va.	14	Dec. 30	1	17.8	Dec. 31
Philippi, W. Va.	14	Dec. 30	1	22.8	Dec. 31
West Fork, Monongahela:					
Clarksburg, W. Va.	7	Dec. 31	1	8.6	Dec. 31
Little Kanawha: Glenville, W. Va.	23	Dec. 31	1	28.05	Dec. 31
Creston, W. Va.	20	Dec. 31	1	24.95	Dec. 31
Guyandot: Branchland, W. Va.	35	Dec. 31	1	38.1	1
Levisa Fork: Prestonsburg, Ky.	30	Dec. 31	1	31.5	Dec. 31
Scioto: LaRue, Ohio	11	29	30	#12.1	30
Circleville, Ohio	14	30	Feb. 1	16.0	31
Kentucky: Hazard, Ky.	20	15	15	20.5	15
Green: Munfordville, Ky.	28	Dec. 31	1	#29.1	31
Lock 6, Brownsville, Ky.	18	1	1	#18.3	1
Lock 4, Woodbury, Ky.	33	Dec. 31	2	#36.3	1
Muscatatuck: Austin, Ind.	16T	30	30	17.0	30
White: Anderson, Ind.	10	29	1		
Spencer, Ind.	14	31	1/		
Elliston, Ind.	18	31	31	19.95	Feb. 1
Edwardsport, Ind.	15	30	1/		
Skillet Fork: Wayne City, Ill.	15	28	31	16.9	30
Little Wabash: Wilcox, Ill.	16	29	1	20.75	31
Harroth: Kingston Springs, Tenn.	15	Dec. 30	1	19.3	Dec. 31
Red: Port Royal, Tenn.	30	Dec. 30	Dec. 31	31.8	Dec. 30
Cumberland: Barbourville, Ky.	27	Dec. 30	1	42.3	1
Williamsburg, Ky.	21	Dec. 30	1	29.4	2
South Chickamauga Creek:					
Chickamauga (nr.), Tenn.	10	Dec. 30	1	11.7	31
Elk: Fayetteville (abv.), Tenn.	18	Dec. 30	1	23.2	Dec. 30
Fayetteville, Tenn.	659	Dec. 31	4	667.45	Dec. 30

River and station	Flood stage	Above flood stages -dates		Crest *	
		From-	To-	Stage	Date
<u>MISSISSIPPI SYSTEM (cont'd)</u>	<u>Ft.</u>			<u>Ft.</u>	
<u>Ohio Basin (continued)</u>					
Duck: Shelbyville, Tenn.	719	Dec. 31	1	731.7	Dec. 31-1
Shelbyville (nr.), Tenn.	23	Dec. 30	1	33.4	31
Columbia, Tenn.	32	Dec. 31	3	41.3	1
Tennessee: Whitesburg, Ala.	560	Dec. 31	5	569.3	2
Savannah, Tenn.	380	1	6	382.45	5
Florence, Ala.	419	Dec. 31	5	422.2	1
Gilbertsville, Ky.	320	Dec. 31	9	327.8	6
Ohio: Dam No. 47, Newburgh, Ind.	38	4	6	#30.0	5
Shawneetown, Ill.	33	6	7	#33.3	7
Dam No. 50, Fords Ferry, Ky.	34	5	8	35.9	7
Dam No. 52, Brookport, Ill.	37	5	8	37.9	6
<u>White Basin</u>					
Cache: Patterson, Ark.	7	Dec. 31	26	9.2	4
<u>Red Basin</u>					
Sulphur: Hagansport, Tex.	38	Dec. 28	2	46.0	Dec. 29
Naples, Tex.	22	6	8	39.8	7
		4	9	23.7	5
Ouachita: Camden, Ark.	26	6	11	29.7	3
<u>WEST GULF OF MEXICO DRAINAGE</u>					
Calcasieu: Hineston, La.	12	Dec. 31	11	14.7	3
Sabine: Mineola, Tex.	14	Dec. 30	4	16.1	2
<u>PACIFIC SLOPE DRAINAGE</u>					
<u>San Joaquin Basin</u>					
Eastside Passway: El Nido, Calif.	W12	17	1/	14.3	17
Tuolumne: Modesto, Calif.	W50.5	1/	D	52.6	22
Stanislaus: Orange Blossom, Calif.	16	17	17	18.1	17
		21	23	19.1	22
Cosumnes: Michigan Bar, Calif.	W 7	D	D	9.7	21
San Joaquin: Vernalis, Calif.	W24.5	19	31	28.5	23
<u>Sacramento Basin</u>					
Yuba: Englebright Dam, Calif.	W527	1/	1/	540.2	22
Feather: Yuba City, Calif.	W65	17	18	66.3	17
		21	23	67.3	22
		23	25	67.3	24
Nicolaus, Calif.	W43	16	1	46.8	22
Cache Creek: Rumsey, Calif.	14	23	24	15.5	24
Yolo, Calif.	W75.3	24	24	80.3	24
Yolo Bypass: Lisbon, Calif.	W19	15	1	23.9	25
Sacramento: Bend Bridge, Calif.	38	16	16	38.9	16
		21	1	39.0	21
			1	42.0	22
				48.3	24
				46.4	27
Red Bluff, Calif.	23	16	16	23.0	16
		21	22	#24.4	21
		23	24	27.6	24
		25	26	#23.8	25
		26	28	#26.3	27
Tehama Bridge, Calif.	213	D	D	217.7	16
Vina (Woodson Bridge), Calif.	183	14	15	#184.2	15
		16	18	#187.9	17
		1	1	188.6	21
		20		191.5	24
				#187.9	25
				#189.2	27
Hamilton City, Calif.	148	D	D	#151.0	25
Ord Ferry, Calif.	W110.5	D	D	119.6	24
Butte City, Calif.	W 89	D	D	#95.9	25
Moulton Weir, Calif.	W 76.8	D	D	#83.5	25
Colusa Weir, Calif.	W 61.8	Dec. 20	1/	#65.3	Dec. 23
Colusa Bridge, Calif.	W 63	15	1/	#68.5	26
				67.6	25
Tisdale Weir, Calif.	W 45.5	Dec. 20	6	#48.4	Dec. 26
		10	1/	#50.8	26
Wilkins Slough, Calif.	W 47.6	15	1/	50.7	26

FLOOD STAGE DATA

(All dates in January unless otherwise specified)

JANUARY 1970

River and station	Flood stage	Above flood stages -dates		Crest *	
		From-	To-	Stage	Date
PACIFIC SLOPE DRAINAGE (cont'd)	<i>Fl</i>			<i>Fl</i>	
Sacramento Basin (continued)					
Sacramento: (continued)					
Knights Landing, Calif.	W 37	D	D	#40.9	26
Fremont Weir, Calif.	W 33.5	Dec. 24	D 13	35.7 39.1	Dec. 26 26
Sacramento, Calif.	W 25	16	29	28.2	24
Rio Vista, Calif.	W 8	16	16	8.3	16
		17	17	8.0	17
		18	18	8.0	18
		19	19	8.5	19
		20	20	8.3	20
		21	21	8.6	21
		22	22	8.5	22
		23	23	9.2	23
		24	24	8.7	24
		25	25	8.5	25
		26	26	8.2	26
		27	27	8.5	27
Russian Basin					
Russian: Hopland, Calif.	21	23	24	21.6	24
Healdsburg, Calif.	19	23	24	22.2	24
Guerneville Bridge, Cal.	32	14	15	33.5	14
		16	17	35.8	16
		21	23	38.7	22
		23	25	41.3	24
Del Basin					
Van Duzen:					
Bridgeville, Calif.	17	23	24	18.5	23
		26	27	17.8	27
Eel:					
Fernbridge, Calif.	20	22	22	20.1	22
		23	25	24.8	24
		27	27	20.6	27
Smith Basin					
Smith: Crescent City, Calif.	35	22	22	35.5	22
Rogue and Coquille Basins					
Rogue: Raygold, Oreg.	12	22	22	12.6	22
		27	27	13.2	27
Grants Pass, Oreg.	19	27	27	19.2	27
South Fork Coquille:					
Myrtle Point, Oreg.	35	23	28	40.9 40.65 39.7	23 24 27
Coquille: Coquille, Oreg.	21	24	28	23.5	24

* Provisional
 # Highest Stage Observed
 1 Continued at the end of the month
 0 Data not available
 E Estimated
 S Spillway Crest elevation
 T Tentative
 W Warning Stage

River and station	Flood stage	Above flood stages -dates		Crest *	
		From-	To-	Stage	Date
PACIFIC SLOPE DRAINAGE (cont'd)	<i>Fl</i>			<i>Fl</i>	
Columbia Basin (continued)					
Weiser: Cambridge (nr.), Idaho	9	24	25	9.8	24
Weiser (nr.), Idaho	8	21	22	8.3	21
		23	25	9.05	24
		26	28	10.3	27
Marys: Philomath, Oreg.	20	23	23	20.0	23
		25	25	20.1	25
		27	27	20.0	27
Santiam: Jefferson, Oreg.	15	23	23	15.5	23
Luckiamute: Suver, Oreg.	27	18	22	28.5	19
		23	28	28.7	23
				28.2	27
South Uamhill: Whiteson, Oreg.	38	19	29	40.9	20
				41.9	23, 27
Pudding: Aurora, Oreg.	20	17	31	24.2	21
				26.1	23
Tualatin: Farmington, Oreg.	29	18	31	33.0	21
				33.3	24
				33.1	28
West Linn, Oreg.	12	21	31	14.0	23
Clackamas: Clackamas, Oreg.	13	18	19	13.5	18
		23	23	15.5	23
Johnson Creek: Sycamore, Oreg.	8	14	15	9.25	14
		18	18	8.7	18
		22	23	10.0	23
Willamette:					
Wilsonville, Oreg.	25	23	31	27.4	27
Oregon City (Lower), Oreg.	27	23	29	30.5	27
Portland, Oreg.	18	23	26	18.6	24
Columbia: Vancouver, Wash.	16	23	28	17.7	24
Longview, Wash.	12	23	28	13.5	24
Grays Harbor					
Chehalis:					
Centralia, Wash.	63	15	15	63.25	15
		27	28	64.8	28

Average in null values

JANUARY 1970

[illegible]

Average monthly values

29

RAWINSONDE DATA

Average monthly values

JANUARY 1970

GREAT FALLS, MONT. 886 MB										GREEN BAY, WIS. 991 MB										GREENSBORO, N. C. 986 MB										GUAM, MARIANA IS. 1000 MB									
Standard pressure surface mb	No of observations	Dynamic height	Temperature	Dew Point	Direction	Speed	No of observations	Dynamic height	Temperature	Dew Point	Direction	Speed	No of observations	Dynamic height	Temperature	Dew Point	Direction	Speed	No of observations	Dynamic height	Temperature	Dew Point	Direction	Speed	No of observations	Dynamic height	Temperature	Dew Point	Direction	Speed									
5000	31	1,472	-4.7	-9.6	12	9	31	1,118	-10.3	-14.9	29	3.6	29	210	-16.1	-17.7	29	3.0	31	1,275	-2.9	-6.0	28	1.2	31	111	24.0	22.3	08	2.8									
1000	31	1,215					31	1,171					29	143					31	1,163					31	109													
950	31	623					31	570					29	530	-13.4	-15.6	30	4.7	31	572	-11.6	-8.8	29	4.3	31	558	22.4	20.3	08	7.3									
900	31	1,058					31	993					29	943	-13.4	-17.3	30	5.4	31	1,002	-2.4	-11.0	29	7.0	31	1,029	19.7	16.9	09	8.1									
850	31	1,512					31	1,435	-6.5	-12.7	25	8.4	29	1,378	-13.1	-16.5	29	6.3	31	1,455	-3.3	-12.9	28	8.6	31	1,521	17.5	12.2	08	7.5									
800	31	1,993	-3.1	-9.8	16	1.7	31	1,909	-6.8	-12.6	26	7.6	29	1,840	-13.8	-19.7	27	7.8	31	1,933	-4.6	-14.6	28	10.4	31	2,038	16.8	5.1	08	6.3									
750	31	2,501	-3.2	-12.0	18	2.3	31	2,416	-7.9	-13.2	27	12.8	29	2,327	-15.8	-21.3	29	9.1	31	2,439	-6.5	-17.1	27	13.8	31	2,585	13.1	1.0	09	6.0									
700	31	3,041	-15.3	-27.7	61	3.1	31	3,447	-11.0	-16.1	24	14.4	29	2,847	-18.0	-23.5	29	11.0	31	3,277	-8.8	-19.3	27	15.8	31	3,162	10.5	-5.5	10	4.4									
650	31	3,521	-11.4	-23.8	88	9.5	31	3,514	-14.4	-20.1	29	16.8	29	3,395	-20.7	-26.4	29	12.9	31	3,547	-11.6	-22.2	27	19.0	31	3,775	7.0	-10.5	10	3.4									
600	31	4,224	-14.6	-23.4	29	12.7	31	4,115	-18.5	-24.1	29	17.7	29	3,986	-24.1	-30.2	29	14.8	31	4,158	-15.0	-26.5	27	22.1	31	4,428	3.2	-13.7	11	3.6									
550	31	4,927	-18.9	-27.9	29	15.3	31	4,760	-22.6	-28.9	29	18.5	29	4,610	-27.8	-33.9	29	16.4	31	4,809	-18.4	-30.8	27	25.8	31	5,124	-9.7	-17.5	12	3.2									
500	31	5,581	-23.6	-32.0	29	17.7	31	5,453	-27.3	-33.4	29	19.5	29	5,295	-32.0	-38.5	29	17.3	31	5,518	-22.7	-34.6	27	27.7	31	5,882	-5.8	-22.2	13	3.1									
450	31	6,339	-28.9	-35.9	29	20.0	31	6,199	-32.5	-37.4	29	21.9	29	6,026	-36.8	-40.6	30	18.0	31	6,250	-27.6	-37.8	27	31.3	31	6,699	-10.3	-28.6	13	2.1									
400	31	7,176	-35.0	-41.1	29	22.5	31	7,024	-38.4	-41.4	29	24.3	29	6,839	-42.1	-43.2	29	20.4	31	7,121	-33.1	-42.0	27	33.9	31	7,600	-15.9	-34.1	15	1.7									
350	31	8,095	-45.9	-41.1	29	26.1	31	7,929	-45.1		29	27.8	29	7,732	-47.5		29	22.8	31	8,048	-39.6	-45.8	27	36.8	31	8,592	-22.9	-39.1	19	1.5									
300	31	9,123	-48.9			30.2	31	8,942	-52.0		29	29.8	29	8,740	-51.6		29	25.2	30	9,291	-46.6		26	39.5	31	9,702	-31.4	-46.3	23	2.0									
250	31	10,301	-55.5			34.1	31	10,105	-57.6		29	30.8	29	9,916	-54.0		29	25.6	30	10,282	-53.0		27	43.2	31	10,768	-41.4		21	3.3									
200	31	11,710	-58.6			33.2	29	11,515	-56.5		29	23.6	29	11,334	-52.0		29	23.4	30	11,713	-54.3		27	42.1	31	12,439	-53.6		21	4.5									
150	31	12,551	-57.5			30.5	29	12,364	-55.3		29	20.8	29	12,221	-51.1		28	22.5	30	12,567	-55.0		27	41.2	30	13,283	-60.7		21	5.3									
100	31	13,527	-56.8			26.0	29	13,351	-54.0		29	20.1	29	13,223	-51.5		29	21.3	30	13,549	-56.3		27	38.3	30	14,225	-68.0		21	6.1									
50	31	14,577	-56.8			23.0	29	14,521	-53.8		29	16.6	29	14,404	-52.5		28	18.4	30	14,701	-59.0		27	34.8	30	15,297	-76.0		21	6.3									
0	31	16,070	-61.2			16.9	29	15,950	-55.0		29	14.3	29	15,841	-54.1		29	15.6	30	16,090	-62.1		27	29.0	30	16,564	-81.7		19	2.8									
80	31	17,450	-62.4			13.3	28	17,372	-55.1		30	10.5	28	17,267	-55.3		28	14.6	29	17,465	-63.5		27	21.7	29	17,812	-82.3		13	1.3									
70	31	18,274	-61.3			10.1	27	18,200	-56.1		30	8.4	28	18,117	-55.8		29	12.0	29	18,286	-60.0		28	16.3	29	18,557	-78.8		21	2.0									
60	31	19,227	-61.7			7.0	27	19,197	-57.0		32	7.0	27	19,097	-56.3		30	8.9	29	19,236	-62.5		28	15.2	28	19,453	-73.7		27	3.4									
50	29	20,358	-61.0			4.5	28	20,347	-56.6		31	4.8	29	20,253	-56.7		30	6.9	29	20,365	-60.9		28	12.8	27	20,532	-68.9		26	2.8									
40	29	21,446	-60.2			3.2	26	21,757	-57.7		32	4.5	28	21,605	-57.4		32	4.4	28	21,756	-59.6		27	8.6	27	21,885	-63.7		17	3.3									
30	28	23,543	-59.7			2.6	24	23,583	-57.6		31	6.2	29	23,480	-58.0		32	3.7	27	23,580	-58.5		28	8.1	27	23,677	-58.4		08	2.9									
20	25	24,685	-59.4			0.1	2,0	24,732	-57.9		06	7.9	28	24,625	-58.2		31	4.3	23	24,711	-57.7		29	6.5	27	24,830	-56.0		08	5.8									
10	26	26,088	-59.9			3.6	29	22	26,149	-57.7	07	10.7	26	26,025	-58.1		02	4.8	23	26,122	-56.5		28	7.3	26	26,261	-52.7		08	7.7									
0	15	27,916	-57.6			3.8	1,8	27,970	-58.0		07	12.8	25	27,841	-57.5		02	4.5	17	27,949	-54.0		28	8.5	23	28,131	-48.6		08	9.1									
7	10						12	30,517	-56.9		08	15.3	15	30,434	-54.9		03	4.0	8	30,632	-45.3			17	30,822	-43.8		09	14.3										

HONO, HAWAII 1013 MB										HUNTINGTON W. VA. 990 MB										INTERNATIONAL FALLS, MINN. 973 MB										JACKSON, MISS. 1010 MB										JOHNSTON IS., PACIFIC AREA 1013 MB									
Standard pressure surface mb	No of observations	Dynamic height	Temperature	Dew Point	Direction	Speed	No of observations	Dynamic height	Temperature	Dew Point	Direction	Speed	No of observations	Dynamic height	Temperature	Dew Point	Direction	Speed	No of observations	Dynamic height	Temperature	Dew Point	Direction	Speed	No of observations	Dynamic height	Temperature	Dew Point	Direction	Speed	No of observations	Dynamic height	Temperature	Dew Point	Direction	Speed	No of observations	Dynamic height	Temperature	Dew Point	Direction	Speed							
5000	31	11	20.0	15.1	24	1.2	26	246	-6.6	-9.4	22	1.8	30	359	-21.4	-24.8	28	1.2	31	100	1.8	-2.0	04	.5	31	3	24.4	20.4	08	3.4	31	3	24.4	20.4	08	3.4	31	3	24.4	20.4	08	3.4							
1000	31	124	20.9	17.7	27	1.1	26	164					30	153					31	177	2.8	-1.1	02	.9	31	117	23.4	19.1	08	3.6	31	117	23.4	19.1	08	3.6	31	117	23.4	19.1	08	3.6							
950	31	565	18.5	15.4	09	.7	26	563	-6.0	-10.6	25	5.1	30	532	-19.1	-21.5	29	2.6	31	595	2.1	-3.9	29	1.1	31	562	19.6	17.4	08	4.1	31	562	19.6	17.4	08	4.1	31	562	19.6	17.4	08	4.1							
900	31	1,030	15.6	12.5	16	1.9	26	988	-7.7	-12.4	27	9.1	30	936	-17.2	-18.9	31	5.8	31	1,029	2.1	-5		4.1	31	1,028	16.5	13.9	09	4.3	31	1,028	16.5	13.9	09	4.3	31	1,028	16.5	13.9	09	4.3							
850	31	1,516	11.6	8.1	19	2.6	26	1,463	-10.1	-13.5	48	10.4	30	1,401	-19.7	-21.9	31	8.2	31	1,497	1.1	-8.2	11	8.2	31	1,496	11.6	8.1	20	8.9	31	1,496	11.6	8.1	20	8.9	31	1,496	11.6	8.1	20	8.9							
800	31	2,023	10.8	3.6	22	3.1	26	1,990	-9.7	-15.1	27	11.5	30	1,821	-16.1	-19.9	31	8.7	31	1,978	1.1	-11.8	28	10.0	31	1,925	12.9		3.7	18																			
750	31	2,559	9.2	-2.5	25	4.2	26	2,397	-11.1	-16.9	27	13.0	30	2,300	-17.5	-22.2	31	10.9	31	2,649	-1.9	-15.8	28	12.0	31	2,565	12.1	-8.0	30	1.3																			
700	31	3,130	6.6	-8.3	25	5.6	26	2,925	-13.3	-19.3	27	15.9	30	2,821	-19.5	-25.3	31	12.8	31	3,040	-6.4	-19.5	28	14.2	31	3,142	10.1	-10.5	30	2.4																			
650	31	3,732	3.7	-14.7	26	7.3	26	3,488	-15.1	-22.1	28	18.4	30	3,360	-22.3	-28.6	31	13.7	31	3,617	-6.4	-22.9	27	17.0	31	3,750	7.2	-14.3	30	3.7																			
600	31	4,381	1.1	-19.7	27	10.2	26	4,090	-18.2	-26.2	28	21.5	30	3,930	-25.3	-32.8	31	15.1	31	4,200	-10.0	-25.7	27	20.3	30	4,350	3.3	-18.0	29	6.6																			
550	31	5,005	-4.4	-23.9	29	12.6	26	4,731	-20.2	-28.2	29	24.3	30	4,575	-27.9	-36.5	30	18.0	31	5,006	-13.1	-30.0	27	22.6	30	5,095	-9.9	-21.9	29	10.5																			
500	31	5,617	-8.6	-28.1	28	15.2	26	5,430	-26.2	-34.3	27	27.3	30	5,258	-33.2	-39.4	30	18.2	31	5,628	-18.4	-33.2	27	26.6	31	5,681	-6.3	-25.2	30	8.7																			
450	31	6,216	-15.2	-31.6	28	18.1	26	6,178	-31.4	-38.3	27	29.4	30	5,986	-38.1	-42.0	30	20.1	31	6,337	-24.1	-37.2	27	28.6	31	6,472	-11.7	-29.7	31	12.2																			
400	31	7,503	-21.5	-37.0	28	20.4	26	7,010	-36.7	-44.2	27	31.7	30	6,794	-43.8	-44.4	31	21.5	31	7,255	-30.5	-42.2	26	30.6	31	7,571	-17.6	-34.3	31	16.7																			
350	31	8,474	-28.3	-41.7	29	24.0	26	7,923	-42.6	-50.4	27	35.2	30	7,681	-48.8		31	25.0	31	8,190	-37.5	-47.6	26	34.4	31	8,557	-24.7	-40.6	30	19.0																			
300	31	9,584	-35.3	-48.3	28	28.5	26	8,968	-48.7			40.0	30	8,730	-56.9	-48.7	31	25.1	31	9,230	-45.0		26	38.1	31	9,605	-32.5	-47.1	29	23.7																			
250	31	1,987.1	-41.1	-53.9	29	26.1	26	10,133	-53.5			41.0	30	9,853	-64.7		31	25.0	31	10,332	-52.3		26	42.3	31	10,622	-40.2	-53.8	29	23.6																			
200	31	12,283	-53.3		29	31.6	26	11,566	-53.6			37.6	30	11,291	-51.4		30	20.8	31	11,856	-56.6		26	46.9	31	12,399	-51.6		23.7																				
175	31	13,132	-58.9		29	32.5	26	12,425	-53.3			37.4	30	12,159	-51.0		30	19.7	31	12,702	-57.3		26	45.8	31	13,248	-59.4		29	24.3																			
150	31	14,085	-65.3		29	31.0	26	13,416	-54.2			34.2	30	13,164	-50.7		30	19.7	31	13,672	-59.5		26	43.8	31	14,197	-66.5		28	22.6																			
125	31	15,178	-71.7		29	28.7	26	14,579	-56.5			29.7	30	14,350	-51.4		30	17.2	31	14,807	-62.0		26	38.5	31	15,279	-74.0		29	20.2																			
100	31	16,477	-78.9		29	22.7	26	15,796	-52.5			23.9	30	15,576	-52.5		30	13.3	31	16,172	-66.6		26	31.5	31	16,559	-80.0		28	18.5																			
75	31	17,752	-87.2		28	14.8	25	17,381	-59.7			27.9	30	17,234	-53.6		30	10.9	29	17,522	-67.6		26	26.8	31	17,811	-87.7		28	8.5																			
50	31	18,517	-76.7		28	9.8	25	18,215	-59.9			22.7	30	18,090	-54.3		31	10.6	28	18,325	-67.3		27	19.5	31	18,562	-79.7		28	6.3																			
25	31	19,414	-71.4		28	5.5	25	19,177	-60.2			28	11.5	30	19,076	-55.0		32	7.6	27	19,255	-66.0		27	14.6	30	19,449	-73.2		28	4.6																		
0	30	20,511	-60.6		26	3.0	24	20,321	-59.0			28	8.4	30	20,238	-55.4		35	5.3	27	20,367	-64.0		27	10.8	29	20,536	-65.8		26	3.2																		
40	30	21,891	-60.1		26	2.5	24	21,723	-58.4			28	6.5	30	21,657	-56.2		02	4.4	27	21,742	-61.6		28	8.1	29	21,908	-61.1		23	1.7																		
20	30	23,698	-57.3		26	2.0	23	23,530	-56.7			27	5.7	30	23,463	-54.7		02	7.7	27	23,533	-59.6		28	6.9	29	23,698	-60.8		26	1.8																		
25	30	24,852	-57.3		33	2.7	22	24,685	-58.1			31	3.8	29	24,631	-58.2		06	6.9	27	24,677	-58.3		28	9.4	28	24,862	-55.9		26	3.3																		
20	30	26,277	-53.8		31	1.4	20	26,090	-56.7			31	3.8	26	26,041	-58.8		06	7.9	25	26,079	-56.7		28	11.8	24	26,292	-52.3		26	5.4																		
15	25	28,145	-50.0		25	2.2	14	27,927	-55.3			29	7.3	27	27,835	-59.2		06	9.7	21	27,906	-53.3		28	16.8	25	28,171	-48.0		28	5.3																		
10	15	30,812	-45.4		31	3.6						16	30,404	-56.0		05	10.2	9	30,586	-45.1		26																											

Average monthly values

1551-1552

APPENDIX 1. List of all species of fish.

RAWINSONDE DATA

Average monthly values

JANUARY 1970

PORTLAND, OREG. 1970 MB												OULOUA, ALASKA 1966 MB											
No. of observations	Dynamic height	Temperature	Dew Point	Direction	Speed	No. of observations	Dynamic height	Temperature	Dew Point	Direction	Speed	No. of observations	Dynamic height	Temperature	Dew Point	Direction	Speed	No. of observations	Dynamic height	Temperature	Dew Point	Direction	Speed
1	84	28.2	22.0	06	1.0	1	200	27.7	13.4	15	1.0	1	58	3.2	1.2	11	1.0	1	58	3.2	1.2	11	1.0
2	1503	21.0	15.1	03	1.0	2	150	27.0	13.4	15	1.0	2	106	3.2	1.2	11	1.0	2	106	3.2	1.2	11	1.0
3	1503	18.3	12.8	04	1.0	3	552	27.0	13.4	15	1.0	3	522	3.4	1.1	18	3.6	3	522	3.4	1.1	18	3.6
4	1503	15.7	10.1	01	1.0	4	972	27.0	13.4	15	1.0	4	960	1.1	-2.3	20	5.6	4	960	1.1	-2.3	20	5.6
5	1503	10.2	5.6	01	1.0	5	1510	27.0	13.4	15	1.0	5	1418	1.1	-5.2	21	7.1	5	1418	1.1	-5.2	21	7.1
6	3755	6.8	-5.6	05	1.0	6	1510	27.0	13.4	15	1.0	6	1418	1.1	-5.2	21	7.1	6	1418	1.1	-5.2	21	7.1
7	3755	3.0	-9.1	01	1.0	7	1510	27.0	13.4	15	1.0	7	1418	1.1	-5.2	21	7.1	7	1418	1.1	-5.2	21	7.1
8	3755	3.0	-9.1	01	1.0	8	1510	27.0	13.4	15	1.0	8	1418	1.1	-5.2	21	7.1	8	1418	1.1	-5.2	21	7.1
9	3755	3.0	-9.1	01	1.0	9	1510	27.0	13.4	15	1.0	9	1418	1.1	-5.2	21	7.1	9	1418	1.1	-5.2	21	7.1
10	3755	3.0	-9.1	01	1.0	10	1510	27.0	13.4	15	1.0	10	1418	1.1	-5.2	21	7.1	10	1418	1.1	-5.2	21	7.1
11	3755	3.0	-9.1	01	1.0	11	1510	27.0	13.4	15	1.0	11	1418	1.1	-5.2	21	7.1	11	1418	1.1	-5.2	21	7.1
12	3755	3.0	-9.1	01	1.0	12	1510	27.0	13.4	15	1.0	12	1418	1.1	-5.2	21	7.1	12	1418	1.1	-5.2	21	7.1
13	3755	3.0	-9.1	01	1.0	13	1510	27.0	13.4	15	1.0	13	1418	1.1	-5.2	21	7.1	13	1418	1.1	-5.2	21	7.1
14	3755	3.0	-9.1	01	1.0	14	1510	27.0	13.4	15	1.0	14	1418	1.1	-5.2	21	7.1	14	1418	1.1	-5.2	21	7.1
15	3755	3.0	-9.1	01	1.0	15	1510	27.0	13.4	15	1.0	15	1418	1.1	-5.2	21	7.1	15	1418	1.1	-5.2	21	7.1
16	3755	3.0	-9.1	01	1.0	16	1510	27.0	13.4	15	1.0	16	1418	1.1	-5.2	21	7.1	16	1418	1.1	-5.2	21	7.1
17	3755	3.0	-9.1	01	1.0	17	1510	27.0	13.4	15	1.0	17	1418	1.1	-5.2	21	7.1	17	1418	1.1	-5.2	21	7.1
18	3755	3.0	-9.1	01	1.0	18	1510	27.0	13.4	15	1.0	18	1418	1.1	-5.2	21	7.1	18	1418	1.1	-5.2	21	7.1
19	3755	3.0	-9.1	01	1.0	19	1510	27.0	13.4	15	1.0	19	1418	1.1	-5.2	21	7.1	19	1418	1.1	-5.2	21	7.1
20	3755	3.0	-9.1	01	1.0	20	1510	27.0	13.4	15	1.0	20	1418	1.1	-5.2	21	7.1	20	1418	1.1	-5.2	21	7.1
21	3755	3.0	-9.1	01	1.0	21	1510	27.0	13.4	15	1.0	21	1418	1.1	-5.2	21	7.1	21	1418	1.1	-5.2	21	7.1
22	3755	3.0	-9.1	01	1.0	22	1510	27.0	13.4	15	1.0	22	1418	1.1	-5.2	21	7.1	22	1418	1.1	-5.2	21	7.1
23	3755	3.0	-9.1	01	1.0	23	1510	27.0	13.4	15	1.0	23	1418	1.1	-5.2	21	7.1	23	1418	1.1	-5.2	21	7.1
24	3755	3.0	-9.1	01	1.0	24	1510	27.0	13.4	15	1.0	24	1418	1.1	-5.2	21	7.1	24	1418	1.1	-5.2	21	7.1
25	3755	3.0	-9.1	01	1.0	25	1510	27.0	13.4	15	1.0	25	1418	1.1	-5.2	21	7.1	25	1418	1.1	-5.2	21	7.1
26	3755	3.0	-9.1	01	1.0	26	1510	27.0	13.4	15	1.0	26	1418	1.1	-5.2	21	7.1	26	1418	1.1	-5.2	21	7.1
27	3755	3.0	-9.1	01	1.0	27	1510	27.0	13.4	15	1.0	27	1418	1.1	-5.2	21	7.1	27	1418	1.1	-5.2	21	7.1
28	3755	3.0	-9.1	01	1.0	28	1510	27.0	13.4	15	1.0	28	1418	1.1	-5.2	21	7.1	28	1418	1.1	-5.2	21	7.1
29	3755	3.0	-9.1	01	1.0	29	1510	27.0	13.4	15	1.0	29	1418	1.1	-5.2	21	7.1	29	1418	1.1	-5.2	21	7.1
30	3755	3.0	-9.1	01	1.0	30	1510	27.0	13.4	15	1.0	30	1418	1.1	-5.2	21	7.1	30	1418	1.1	-5.2	21	7.1

PORTLAND, ORE. 1970 MB												ST. PAUL IS., ALASKA 1912 MB												SALEH, OREG. 1601 MB												SAN JUAN, P. R. 1017 MB																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
No.	Time	Lat	Long	Wind	Speed	Temp	Dew	Humid	Cloud	Vis	Pressure	No.	Time	Lat	Long	Wind	Speed	Temp	Dew	Humid	Cloud	Vis	Pressure	No.	Time	Lat	Long	Wind	Speed	Temp	Dew	Humid	Cloud	Vis	Pressure	No.	Time	Lat	Long	Wind	Speed	Temp	Dew	Humid	Cloud	Vis	Pressure																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
1	172	45-50	123-00	01	1.0	10.0	5.0	50	10	6.8	-10.2	1	10	45-50	123-00	01	1.0	10.0	5.0	50	10	6.8	-10.2	1	10	45-50	123-00	01	1.0	10.0	5.0	50	10	6.8	-10.2	1	10	45-50	123-00	01	1.0	10.0	5.0	50	10	6.8	-10.2	1	10	45-50	123-00	01	1.0	10.0	5.0	50	10	6.8	-10.2	1	10	45-50	123-00	01	1.0	10.0	5.0	50	10	6.8	-10.2	1	10	45-50	123-00	01	1.0	10.0	5.0	50	10	6.8	-10.2	1	10	45-50	123-00	01	1.0	10.0	5.0	50	10	6.8	-10.2	1	10	45-50	123-00	01	1.0	10.0	5.0	50	10	6.8	-10.2	1	10	45-50	123-00	01	1.0	10.0	5.0	50	10	6.8	-10.2	1	10	45-50	123-00	01	1.0	10.0	5.0	50	10	6.8	-10.2	1	10	45-50	123-00	01	1.0	10.0	5.0	50	10	6.8	-10.2	1	10	45-50	123-00	01	1.0	10.0	5.0	50	10	6.8	-10.2	1	10	45-50	123-00	01	1.0	10.0	5.0	50	10	6.8	-10.2	1	10	45-50	123-00	01	1.0	10.0	5.0	50	10	6.8	-10.2	1	10	45-50	123-00	01	1.0	10.0	5.0	50	10	6.8	-10.2	1	10	45-50	123-00	01	1.0	10.0	5.0	50	10	6.8	-10.2	1	10	45-50	123-00	01	1.0	10.0	5.0	50	10	6.8	-10.2	1	10	45-50	123-00	01	1.0	10.0	5.0	50	10	6.8	-10.2	1	10	45-50	123-00	01	1.0	10.0	5.0	50	10	6.8	-10.2	1	10	45-50	123-00	01	1.0	10.0	5.0	50	10	6.8	-10.2	1	10	45-50	123-00	01	1.0	10.0	5.0	50	10	6.8	-10.2	1	10	45-50	123-00	01	1.0	10.0	5.0	50	10	6.8	-10.2	1	10	45-50	123-00	01	1.0	10.0	5.0	50	10	6.8	-10.2	1	10	45-50	123-00	01	1.0	10.0	5.0	50	10	6.8	-10.2	1	10	45-50	123-00	01	1.0	10.0	5.0	50	10	6.8	-10.2	1	10	45-50	123-00	01	1.0	10.0	5.0	50	10	6.8	-10.2	1	10	45-50	123-00	01	1.0	10.0	5.0	50	10	6.8	-10.2	1	10	45-50	123-00	01	1.0	10.0	5.0	50	10	6.8	-10.2	1	10	45-50	123-00	01	1.0	10.0	5.0	50	10	6.8	-10.2	1	10	45-50	123-00	01	1.0	10.0	5.0	50	10	6.8	-10.2	1	10	45-50	123-00	01	1.0	10.0	5.0	50	10	6.8	-10.2	1	10	45-50	123-00	01	1.0	10.0	5.0	50	10	6.8	-10.2	1	10	45-50	123-00	01	1.0	10.0	5.0	50	10	6.8	-10.2	1	10	45-50	123-00	01	1.0	10.0	5.0	50	10	6.8	-10.2	1	10	45-50	123-00	01	1.0	10.0	5.0	50	10	6.8	-10.2	1	10	45-50	123-00	01	1.0	10.0	5.0	50	10	6.8	-10.2	1	10	45-50	123-00	01	1.0	10.0	5.0	50	10	6.8	-10.2	1	10	45-50	123-00	01	1.0	10.0	5.0	50	10	6.8	-10.2	1	10	45-50	123-00	01	1.0	10.0	5.0	50	10	6.8	-10.2	1	10	45-50	123-00	01	1.0	10.0	5.0	50	10	6.8	-10.2	1	10	45-50	123-00	01	1.0	10.0	5.0	50	10	6.8	-10.2	1	10	45-50	123-00	01	1.0	10.0	5.0	50	10	6.8	-10.2	1	10	45-50	123-00	01	1.0	10.0	5.0	50	10	6.8	-10.2	1	10	45-50	123-00	01	1.0	10.0	5.0	50	10	6.8	-10.2	1	10	45-50	123-00	01	1.0	10.0	5.0	50	10	6.8	-10.2	1	10	45-50	123-00	01	1.0	10.0	5.0	50	10	6.8	-10.2	1	10	45-50	123-00	01	1.0	10.0	5.0	50	10	6.8	-10.2	1	10	45-50	123-00	01	1.0	10.0	5.0	50	10	6.8	-10.2	1	10	45-50	123-00	01	1.0	10.0	5.0	50	10	6.8	-10.2	1	10	45-50	123-00	01	1.0	10.0	5.0	50	10	6.8	-10.2	1	10	45-50	123-00	01	1.0	10.0	5.0	50	10	6.8	-10.2	1	10	45-50	123-00	01	1.0	10.0	5.0	50	10	6.8	-10.2	1	10	45-50	123-00	01	1.0	10.0	5.0	50	10	6.8	-10.2	1	10	45-50	123-00	01	1.0	10.0	5.0	50	10	6.8	-10.2	1	10	45-50	123-00	01	1.0	10.0	5.0	50	10	6.8	-10.2	1	10	45-50	123-00	01	1.0	10.0	5.0	50	10	6.8	-10.2	1	10	45-50	123-00	01	1.0	10.0	5.0	50	10	6.8	-10.2	1	10	45-50	123-00	01	1.0	10.0	5.0	50	10	6.8	-10.2	1	10	45-50	123-00	01	1.0	10.0	5.0	50	10	6.8	-10.2	1	10	45-50	123-00	01	1.0	10.0	5.0	50	10	6.8	-10.2	1	10	45-50	123-00	01	1.0	10.0	5.0	50	10	6.8	-10.2	1	10	45-50	123-00	01	1.0	10.0	5.0	50	10	6.8	-10.2	1	10	45-50	123-00	01	1.0	10.0	5.0	50	10	6.8	-10.2	1	10	45-50	123-00	01	1.0	10.0	5.0	50	10	6.8	-10.2	1	10	45-50	123-00	01	1.0	10.0	5.0	50	10	6.8	-10.2	1	10	45-50	123-00	01	1.0	10.0	5.0	50	10	6.8	-10.2	1	10	45-50	123-00	01	1.0	10.0	5.0	50	10	6.8	-10.2	1	10	45-50	123-00	01	1.0	10.0	5.0	50	10	6.8	-10.2	1	10	45-50	123-00	01	1.0	10.0	5.0	50	10	6.8	-10.2	1	10	45-50	123-00	01	1.0	10.0	5.0	50	10	6.8	-10.2	1	10	45-50	123-00	01	1.0	10.0	5.0	50	10	6.8	-10.2	1	10	45-50	123-00	01	1.0	10.0	5.0	50	10	6.8	-10.2	1	10	45-50	123-00	01	1.0	10.0	5.0	50	10	6.8	-10.2	1	10	45-50	123-00	01	1.0	10.0	5.0	50	10	6.8	-10.2	1	10	45-50	123-00	01	1.0	10.0	5.0	50	10	6.8	-10.2	1	10	45-50	123-00	01	1.0	10.0	5.0	50	10	6.8	-10.2	1	10	45-50	123-00	01	1.0	10.0	5.0	50	10	6.8	-10.2	1	10	45-50	123-00

Average monthly values

[illegible]

RAWINSONDE DATA

Average monthly values

JANUARY 1970

Standard Pressure surface (mb)	No. of observations	Surface Data					Upper Air Data				
		Dynamic height	Temperature	Dew Point	Direction	Speed	Dynamic height	Temperature	Dew Point	Direction	Speed
1000	2	1.140	-9.1	-8.3	1.1	1.1	131	7.1	-4.4	36	1.5
950	3	1.140	-9.1	-8.3	1.1	1.1	105	7.8	-4.6	27	1.0
900	3	1.140	-9.1	-8.3	1.1	1.1	594	13.1	-3.7	35	3.4
850	3	1.140	-9.1	-8.3	1.1	1.1	1.047	1.1	-6.2	48	3.3
800	3	1.140	-9.1	-8.3	1.1	1.1	1.522	8.7	-8.5	33	3.5
750	3	1.140	-9.1	-8.3	1.1	1.1	2.021	6.2	-10.6	32	4.9
700	3	1.140	-9.1	-8.3	1.1	1.1	2.540	3.5	-13.3	31	7.2
650	3	1.140	-9.1	-8.3	1.1	1.1	3.181	.5	-16.6	31	8.7
600	3	1.140	-9.1	-8.3	1.1	1.1	3.692	-2.7	-18.8	31	11.9
550	3	1.140	-9.1	-8.3	1.1	1.1	4.325	-6.6	-23.0	30	12.5
500	3	1.140	-9.1	-8.3	1.1	1.1	4.993	-11.0	-26.9	30	13.4
450	3	1.140	-9.1	-8.3	1.1	1.1	5.724	-16.2	-29.9	30	15.3
400	3	1.140	-9.1	-8.3	1.1	1.1	6.503	-21.9	-32.6	30	17.8
350	3	1.140	-9.1	-8.3	1.1	1.1	7.364	-28.5	-38.3	30	21.7
300	3	1.140	-9.1	-8.3	1.1	1.1	8.307	-36.0	-43.4	30	24.7
250	3	1.140	-9.1	-8.3	1.1	1.1	9.358	-44.8		30	26.2
200	3	1.140	-9.1	-8.3	1.1	1.1	10.550	-54.4		30	28.2
150	3	1.140	-9.1	-8.3	1.1	1.1	11.947	-63.1		31	30.0
100	3	1.140	-9.1	-8.3	1.1	1.1	12.719	-62.9			
950	3	1.140	-9.1	-8.3	1.1	1.1					
900	3	1.140	-9.1	-8.3	1.1	1.1					
850	3	1.140	-9.1	-8.3	1.1	1.1					
800	3	1.140	-9.1	-8.3	1.1	1.1					
750	3	1.140	-9.1	-8.3	1.1	1.1					
700	3	1.140	-9.1	-8.3	1.1	1.1					
650	3	1.140	-9.1	-8.3	1.1	1.1					
600	3	1.140	-9.1	-8.3	1.1	1.1					
550	3	1.140	-9.1	-8.3	1.1	1.1					
500	3	1.140	-9.1	-8.3	1.1	1.1					
450	3	1.140	-9.1	-8.3	1.1	1.1					
400	3	1.140	-9.1	-8.3	1.1	1.1					
350	3	1.140	-9.1	-8.3	1.1	1.1					
300	3	1.140	-9.1	-8.3	1.1	1.1					
250	3	1.140	-9.1	-8.3	1.1	1.1					
200	3	1.140	-9.1	-8.3	1.1	1.1					
150	3	1.140	-9.1	-8.3	1.1	1.1					
100	3	1.140	-9.1	-8.3	1.1	1.1					
950	3	1.140	-9.1	-8.3	1.1	1.1					
900	3	1.140	-9.1	-8.3	1.1	1.1					
850	3	1.140	-9.1	-8.3	1.1	1.1					
800	3	1.140	-9.1	-8.3	1.1	1.1					
750	3	1.140	-9.1	-8.3	1.1	1.1					
700	3	1.140	-9.1	-8.3	1.1	1.1					
650	3	1.140	-9.1	-8.3	1.1	1.1					
600	3	1.140	-9.1	-8.3	1.1	1.1					
550	3	1.140	-9.1	-8.3	1.1	1.1					
500	3	1.140	-9.1	-8.3	1.1	1.1					
450	3	1.140	-9.1	-8.3	1.1	1.1					
400	3	1.140	-9.1	-8.3	1.1	1.1					
350	3	1.140	-9.1	-8.3	1.1	1.1					
300	3	1.140	-9.1	-8.3	1.1	1.1					
250	3	1.140	-9.1	-8.3	1.1	1.1					
200	3	1.140	-9.1	-8.3	1.1	1.1					
150	3	1.140	-9.1	-8.3	1.1	1.1					
100	3	1.140	-9.1	-8.3	1.1	1.1					
950	3	1.140	-9.1	-8.3	1.1	1.1					
900	3	1.140	-9.1	-8.3	1.1	1.1					
850	3	1.140	-9.1	-8.3	1.1	1.1					
800	3	1.140	-9.1	-8.3	1.1	1.1					
750	3	1.140	-9.1	-8.3	1.1	1.1					
700	3	1.140	-9.1	-8.3	1.1	1.1					
650	3	1.140	-9.1	-8.3	1.1	1.1					
600	3	1.140	-9.1	-8.3	1.1	1.1					
550	3	1.140	-9.1	-8.3	1.1	1.1					
500	3	1.140	-9.1	-8.3	1.1	1.1					
450	3	1.140	-9.1	-8.3	1.1	1.1					
400	3	1.140	-9.1	-8.3	1.1	1.1					
350	3	1.140	-9.1	-8.3	1.1	1.1					
300	3	1.140	-9.1	-8.3	1.1	1.1					
250	3	1.140	-9.1	-8.3	1.1	1.1					
200	3	1.140	-9.1	-8.3	1.1	1.1					
150	3	1.140	-9.1	-8.3	1.1	1.1					
100	3	1.140	-9.1	-8.3	1.1	1.1					
950	3	1.140	-9.1	-8.3	1.1	1.1					
900	3	1.140	-9.1	-8.3	1.1	1.1					
850	3	1.140	-9.1	-8.3	1.1	1.1					
800	3	1.140	-9.1	-8.3	1.1	1.1					
750	3	1.140	-9.1	-8.3	1.1	1.1					
700	3	1.140	-9.1	-8.3	1.1	1.1					
650	3	1.140	-9.1	-8.3	1.1	1.1					
600	3	1.140	-9.1	-8.3	1.1	1.1					
550	3	1.140	-9.1	-8.3	1.1	1.1					
500	3	1.140	-9.1	-8.3	1.1	1.1					
450	3	1.140	-9.1	-8.3	1.1	1.1					
400	3	1.140	-9.1	-8.3	1.1	1.1					
350	3	1.140	-9.1	-8.3	1.1	1.1					
300	3	1.140	-9.1	-8.3	1.1	1.1					
250	3	1.140	-9.1	-8.3	1.1	1.1					
200	3	1.140	-9.1	-8.3	1.1	1.1					
150	3	1.140	-9.1	-8.3	1.1	1.1					
100	3	1.140	-9.1	-8.3	1.1	1.1					
950	3	1.140	-9.1	-8.3	1.1	1.1					
900	3	1.140	-9.1	-8.3	1.1	1.1					
850	3	1.140	-9.1	-8.3	1.1	1.1					
800	3	1.140	-9.1	-8.3	1.1	1.1					
750	3	1.140	-9.1	-8.3	1.1	1.1					
700	3	1.140	-9.1	-8.3	1.1	1.1					
650	3	1.140	-9.1	-8.3	1.1	1.1					
600	3	1.140	-9.1	-8.3	1.1	1.1					
550	3	1.140	-9.1	-8.3	1.1	1.1					
500	3	1.140	-9.1	-8.3	1.1	1.1					
450	3	1.140	-9.1	-8.3	1.1	1.1					
400	3	1.140	-9.1	-8.3	1.1	1.1					
350	3	1.140	-9.1	-8.3	1.1	1.1					
300	3	1.140	-9.1	-8.3	1.1	1.1					
250	3	1.140	-9.1	-8.3	1.1	1.1					
200	3	1.140	-9.1	-8.3	1.1	1.1					
150	3	1.140	-9.1	-8.3	1.1	1.1					
100	3	1.140	-9.1	-8.3	1.1	1.1					
950	3	1.140	-9.1	-8.3	1.1	1.1					
900	3	1.140	-9.1	-8.3	1.1	1.1					
850	3	1.140	-9.1	-8.3	1.1	1.1					
800	3	1.140	-9.1	-8.3	1.1	1.1					
750	3	1.140	-9.1	-8.3	1.1	1.1					
700	3	1.140	-9.1	-8.3	1.1	1.1					
650	3	1.140	-9.1	-8.3	1.1	1.1					
600	3	1.140	-9.1	-8.3	1.1	1.1					
550	3	1.140	-9.1	-8.3	1.1	1.1					
500	3	1.140	-9.1	-8.3	1.1	1.1					
450	3	1.140	-9.1	-8.3	1.1	1.1					
400	3	1.140	-9.1	-8.3	1.1	1.1					
350	3	1.140	-9.1	-8.3	1.1	1.1					
300	3	1.140	-9.1	-8.3	1.1	1.1					
250	3	1.140	-9.1	-8.3	1.1	1.1					
200	3	1.140	-9.1	-8.3	1.1	1.1					
150	3	1.140	-9.1	-8.3	1.1	1.1					
100	3	1.140	-9.1	-8.3	1.1	1.1					
950	3	1.140	-9.1	-8.3	1.1	1.1					
900	3	1.140	-9.1	-8.3	1.1	1.1					
850	3	1.140	-9.1	-8.3	1.1	1.1					
800	3	1.140	-9.1	-8.3	1.1	1.1					
750	3	1.140	-9.1	-8.3	1.1	1.1					
700	3	1.140	-9.1	-8.3	1.1	1.1					
650	3	1.140	-9.1	-8.3	1.1	1.1					
600	3	1.140	-9.1	-8.3	1.1	1.1					
550	3	1.140	-9.1	-8.3	1.1	1.1					
500	3	1.140	-9.1	-8.3	1.1	1.1					
450	3	1.140	-9.1	-8.3	1.1	1.1					
400	3	1.140	-9.1	-8.3	1.1	1.1					
350	3	1.140	-9.1	-8.3	1.1	1.1					
300	3	1.140	-9.1	-8.3	1.1	1.1					
250	3	1.140	-9.1	-8.3	1.1	1.1					
200	3	1.140	-9.1	-8.3	1.1	1.1					
150	3</										

SOLAR RADIATION INTENSITIES

Tabulated in langleys per minute on a surface normal to the direction of the sun.

JAN. 1957

Date	Sun's zenith distance								
	A M				.	P M			
	78.7°	75.7°	70.7°	60.0°		60.0°	70.7°	75.7°	78.7°
TUCSON, ARIZ.									
Air mass									
	1.00	1.65	2.74	1.81	.	1.83	2.74	1.65	1.00
Jan. 1-----	0.99	1.08	1.19	1.36	1.39	1.35	1.22	1.12	1.00
2-----	1.01	1.13	1.23	1.36	-----	-----	-----	1.09	.97
3-----	1.09	1.17	1.27	1.41	1.47	-----	-----	-----	-----
4-----	-----	1.07	1.17	1.34	1.38	-----	1.17	1.03	-----
5-----	.97	-----	1.18	1.35	-----	-----	-----	1.03	.96
6-----	.96	-----	-----	-----	-----	-----	-----	-----	-----
7-----	.97	1.05	-----	-----	-----	-----	1.18	1.08	.97
8-----	.97	1.07	1.17	1.34	-----	-----	-----	-----	-----
9-----	.94	.68	.74	1.02	1.19	1.23	1.11	.97	HM .88
10-----	-----	-----	-----	-----	1.30	1.24	1.11	1.00	.87
11-----	.82	.92	1.03	1.23	1.31	1.25	-----	-----	-----
12-----	-----	-----	-----	-----	-----	-----	1.15	1.01	.92
13-----	.95	1.03	1.13	-----	-----	-----	-----	-----	-----
14-----	-----	-----	-----	-----	1.38	1.30	1.14	1.00	.91
15-----	.92	1.02	1.11	1.30	1.36	1.28	1.09	.94	-----
16-----	.80	.95	1.09	1.27	-----	-----	-----	-----	-----
17-----	-----	-----	-----	-----	-----	1.26	1.15	1.04	.95
18-----	-----	1.03	-----	-----	-----	1.30	-----	-----	-----
19-----	.88	1.01	1.11	1.31	-----	-----	-----	-----	-----
20-----	-----	-----	-----	1.27	-----	1.25	-----	-----	-----
21-----	.91	1.01	1.13	1.31	-----	-----	1.14	-----	-----
22-----	-----	-----	-----	1.25	-----	-----	-----	-----	-----
23-----	1.08	1.14	1.22	1.41	1.48	1.40	1.24	1.12	1.01
24-----	1.08	1.18	1.29	1.45	1.52	1.43	1.24	1.10	.99
25-----	.93	1.07	1.19	1.33	1.40	1.22	-----	.81	.77
Aver- ages	0.94	1.04	1.14	1.31	1.38	1.29	1.16	1.02	.93

OMAHA, NEBR.

Air mass									
	1.78	1.82	2.87	1.91	*	1.91	2.87	1.82	1.78
Jan. 1-----	0.90	-----	-----	-----	HS 1.26	-----	HS 1.16	HS 1.04	HS 1.00
2-----	HS .98	HS 1.02	HS 1.11	-----	HS 1.24	-----	-----	-----	-----
3-----	HS .95	HS 1.05	HS 1.17	-----	HS 1.29	-----	1.12	.92	-----
4-----	HS .99	HS 1.06	1.20	-----	-----	1.14	1.00	.82	-----
5-----	-----	1.03	1.10	-----	-----	HS .90	HM .73	HM .62	-----
6-----	-----	1.03	1.17	1.30	1.30	1.14	1.02	.88	-----
7-----	HS .86	1.04	1.16	HS 1.31	1.30	1.25	1.02	.86	.77
8-----	HS .91	HS 1.06	HM 1.18	HM 1.30	1.34	1.33	-----	-----	.86
9-----	HS .92	HS 1.02	HS 1.16	HS 1.32	1.34	-----	-----	-----	-----
Aver- ages	0.91	1.04	1.16	1.31	1.29	1.29	1.08	.80	.82

Langley is the unit used to denote one gram calorie per square centimeter. An explanation of the formula used in computing the air mass values for each station listed above appears

Sun's zenith distance										
Date	A M				*	P M				
	78.7°	75.7°	70.7°	60.0°		60.0°	70.7°	75.7°	78.7°	
MADISON, WIS.										
Air mass										
	4.69	3.75	2.81	1.88	*	1.88	2.81	3.75	4.69	
Jan. 6-----	M 0.92	M 1.04	S 1.14	-----	M 1.18	-----	M 1.09	M 0.95	M 0.86	
12-----	S .90	S 1.00	S 1.13	-----	S 1.21	-----	S 1.05	-----	-----	
18-----	-----	-----	-----	-----	S 1.33	-----	S 1.20	S 1.09	-----	
19-----	S .86	S 1.02	S 1.08	-----	S 1.30	-----	-----	-----	-----	
20-----	-----	-----	-----	-----	-----	-----	S 1.06	-----	-----	
21-----	S .93	S 1.02	S 1.17	-----	S 1.28	-----	S 1.14	S 1.09	-----	
23-----	-----	-----	-----	-----	1.34	-----	-----	-----	-----	
Aver- ages	0.90	1.02	1.13	-----	1.27	-----	1.14	1.04	0.94	
ALBUQUERQUE, N. MEX.										
Air mass										
	4.19	3.35	2.51	1.67	*	1.67	2.51	3.35	4.19	
Jan. 1-----	-----	-----	-----	1.44	-----	1.43	-----	-----	-----	
2-----	1.04	1.15	1.29	1.41	1.45	1.41	1.34	1.24	1.12	
3-----	1.17	1.26	1.37	1.49	1.50	1.47	1.36	1.25	1.15	
4-----	1.05	1.11	1.23	1.42	1.46	1.44	1.32	1.20	1.10	
5-----	1.11	1.24	1.35	1.47	1.46	1.46	1.29	1.19	1.09	
6-----	1.12	1.21	1.30	1.45	1.48	(1.47)	-----	(1.02)	(.88)	
7-----	-----	1.15	-----	-----	-----	-----	1.19	1.09	-----	
8-----	1.05	1.16	1.28	1.42	1.45	1.38	1.29	-----	-----	
9-----	-----	-----	-----	(1.26)	-----	-----	-----	-----	-----	
10-----	-----	(1.12)	(1.18)	1.42	1.45	1.40	1.22	1.12	1.01	
11-----	(1.00)	(1.13)	(1.26)	1.42	(1.44)	(1.37)	-----	-----	-----	
12-----	(.94)	1.11	1.25	1.41	1.45	1.41	1.25	1.16	1.06	
13-----	1.03	1.15	1.25	1.38	1.43	-----	1.27	1.18	(1.01)	
14-----	(1.04)	(1.14)	1.27	(1.35)	(1.39)	-----	-----	-----	-----	
15-----	-----	-----	(1.16)	-----	-----	-----	-----	-----	-----	
16-----	1.00	-----	-----	-----	-----	-----	-----	-----	-----	
17-----	-----	-----	(1.14)	-----	-----	-----	-----	(.98)	(.80)	
18-----	.99	1.13	1.25	-----	-----	-----	-----	-----	-----	
19-----	.93	(1.06)	(1.11)	-----	1.40	1.36	1.18	1.10	1.01	
20-----	1.12	1.17	1.31	1.46	1.55	1.51	1.34	1.20	1.09	
21-----	1.13	1.23	1.33	1.46	1.53	1.45	(1.33)	-----	-----	
23-----	-----	-----	-----	-----	-----	-----	-----	1.04	.96	
Aver- ages	1.06	1.17	1.29	1.44	1.47	1.43	1.27	1.16	1.00	
() Clouds present	M Moderate haze - moderate haze									
H S Slight haze	S Slight haze - indeterminate									
HM Moderate haze	* Values corresponding to true solar noon									

() Clouds present
H.S. slight haze
HM Moderate haze
M Moderate haze - indeterminate
S Slight haze - indeterminate
* Values corresponding to true solar noon

in the February 1957 issue, Vol. 8, No. 2, page 63, of this publication.

Daily totals and monthly averages of solar radiation (direct and diffuse) received on a horizontal surface, tabulated in langleys.

Langley is the unit used to denote one gram calorie per square centimeter.

U Indicates Urban sites.

Daily totals and monthly averages of solar radiation (direct and diffuse) received on a horizontal surface, tabulated in langley's.

Day of month

Note. --Langley is the coefficient used to convert gram calories per square centimeter. Values with an asterisk are interpolated. The solar radiation data in this table form the basis for the analyses in chapters VII, A, and B of this publication. The analyses include adjustments required to bring station records to approximately the same level of calibration.

10

Net radiation in langley's per day (8 a.m. to 6 p.m.) at 1000, 1400, and 1800 hours.

The measurement is made with a (CSIRO) FENK net exchange radiometer over a plot of ~ 1 ha. The value represents the total incoming minus the total outgoing radiation of all wave lengths.

These data are of an experimental nature and are published as received from the author, *Exp. 3111*. The instrument with which they were measured has not been checked by the ICSA, Weather Bureau.

SOLAR ULTRA-VIOLET RADIATION DATA

$\text{cov}(v_i, v_j)$ and $\text{cov}(v_i, \lambda)$ are given, then

These data are from an U - V display total ultra violet sensor and Spectromax II (Labs) spectrometry recorder. It is of the same location (Acrony Polidruk, Iowa state).

1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100. 101. 102. 103. 104. 105. 106. 107. 108. 109. 110. 111. 112. 113. 114. 115. 116. 117. 118. 119. 120. 121. 122. 123. 124. 125. 126. 127. 128. 129. 130. 131. 132. 133. 134. 135. 136. 137. 138. 139. 140. 141. 142. 143. 144. 145. 146. 147. 148. 149. 150. 151. 152. 153. 154. 155. 156. 157. 158. 159. 160. 161. 162. 163. 164. 165. 166. 167. 168. 169. 170. 171. 172. 173. 174. 175. 176. 177. 178. 179. 180. 181. 182. 183. 184. 185. 186. 187. 188. 189. 190. 191. 192. 193. 194. 195. 196. 197. 198. 199. 200. 201. 202. 203. 204. 205. 206. 207. 208. 209. 210. 211. 212. 213. 214. 215. 216. 217. 218. 219. 220. 221. 222. 223. 224. 225. 226. 227. 228. 229. 230. 231. 232. 233. 234. 235. 236. 237. 238. 239. 240. 241. 242. 243. 244. 245. 246. 247. 248. 249. 250. 251. 252. 253. 254. 255. 256. 257. 258. 259. 260. 261. 262. 263. 264. 265. 266. 267. 268. 269. 270. 271. 272. 273. 274. 275. 276. 277. 278. 279. 280. 281. 282. 283. 284. 285. 286. 287. 288. 289. 290. 291. 292. 293. 294. 295. 296. 297. 298. 299. 300. 301. 302. 303. 304. 305. 306. 307. 308. 309. 310. 311. 312. 313. 314. 315. 316. 317. 318. 319. 320. 321. 322. 323. 324. 325. 326. 327. 328. 329. 330. 331. 332. 333. 334. 335. 336. 337. 338. 339. 340. 341. 342. 343. 344. 345. 346. 347. 348. 349. 350. 351. 352. 353. 354. 355. 356. 357. 358. 359. 360. 361. 362. 363. 364. 365. 366. 367. 368. 369. 370. 371. 372. 373. 374. 375. 376. 377. 378. 379. 380. 381. 382. 383. 384. 385. 386. 387. 388. 389. 390. 391. 392. 393. 394. 395. 396. 397. 398. 399. 400. 401. 402. 403. 404. 405. 406. 407. 408. 409. 410. 411. 412. 413. 414. 415. 416. 417. 418. 419. 420. 421. 422. 423. 424. 425. 426. 427. 428. 429. 430. 431. 432. 433. 434. 435. 436. 437. 438. 439. 440. 441. 442. 443. 444. 445. 446. 447. 448. 449. 450. 451. 452. 453. 454. 455. 456. 457. 458. 459. 460. 461. 462. 463. 464. 465. 466. 467. 468. 469. 470. 471. 472. 473. 474. 475. 476. 477. 478. 479. 480. 481. 482. 483. 484. 485. 486. 487. 488. 489. 490. 491. 492. 493. 494. 495. 496. 497. 498. 499. 500. 501. 502. 503. 504. 505. 506. 507. 508. 509. 510. 511. 512. 513. 514. 515. 516. 517. 518. 519. 520. 521. 522. 523. 524. 525. 526. 527. 528. 529. 530. 531. 532. 533. 534. 535. 536. 537. 538. 539. 540. 541. 542. 543. 544. 545. 546. 547. 548. 549. 550. 551. 552. 553. 554. 555. 556. 557. 558. 559. 560. 561. 562. 563. 564. 565. 566. 567. 568. 569. 570. 571. 572. 573. 574. 575. 576. 577. 578. 579. 580. 581. 582. 583. 584. 585. 586. 587. 588. 589. 590. 591. 592. 593. 594. 595. 596. 597. 598. 599. 600. 601. 602. 603. 604. 605. 606. 607. 608. 609. 610. 611. 612. 613. 614. 615. 616. 617. 618. 619. 620. 621. 622. 623. 624. 625. 626. 627. 628. 629. 630. 631. 632. 633. 634. 635. 636. 637. 638. 639. 640. 641. 642. 643. 644. 645. 646. 647. 648. 649. 650. 651. 652. 653. 654. 655. 656. 657. 658. 659. 660. 661. 662. 663. 664. 665. 666. 667. 668. 669. 670. 671. 672. 673. 674. 675. 676. 677. 678. 679. 680. 681. 682. 683. 684. 685. 686. 687. 688. 689. 690. 691. 692. 693. 694. 695. 696. 697. 698. 699. 700. 701. 702. 703. 704. 705. 706. 707. 708. 709. 710. 711. 712. 713. 714. 715. 716. 717. 718. 719. 720. 721. 722. 723. 724. 725. 726. 727. 728. 729. 730. 731. 732. 733. 734. 735. 736. 737. 738. 739. 740. 741. 742. 743. 744. 745. 746. 747. 748. 749. 750. 751. 752. 753. 754. 755. 756. 757. 758. 759. 760. 761. 762. 763. 764. 765. 766. 767. 768. 769. 770. 771. 772. 773. 774. 775. 776. 777. 778. 779. 780. 781. 782. 783. 784. 785. 786. 787. 788. 789. 790. 791. 792. 793. 794. 795. 796. 797. 798. 799. 800. 801. 802. 803. 804. 805. 806. 807. 808. 809. 810. 811. 812. 813. 814. 815. 816. 817. 818. 819. 820. 821. 822. 823. 824. 825. 826. 827. 828. 829. 830. 831. 832. 833. 834. 835. 836. 837. 838. 839. 840.

TOTAL OZONE DATA

These provisional ozone data are obtained from measurements made with a Dobson ozone spectrophotometer, and are applicable approximately to local apparent noon. The data are presented in the code .5.4. as defined in the August 1962 WMO circular entitled "PUBLICATION OF DATA FOR METEOROLOGICAL RESEARCH, WORLD OZONE DATA."

Units Mill-atmo-cms.

DESCRIPTION OF CHARTS

CHART I. A. NORMAL DAILY AVERAGE TEMPERATURE (°F. 1931-60) FOR MONTH. B. TEMPERATURE DEPARTURE FROM 30-YEAR MEAN (°F. 1931-60) FOR MONTH. Chart I-A is reproduced from Environmental Data Service Publication "Climatic Maps of the United States". Chart I-B is a reproduction of monthly chart appearing in "Weekly Weather and Crop Bulletin", a publication of Environmental Data Service.

CHART II. TOTAL PRECIPITATION. Chart II is a reproduction of monthly chart appearing in "Weekly Weather and Crop Bulletin".

CHART III. PERCENTAGE OF NORMAL PRECIPITATION. Chart III is a reproduction of monthly chart appearing in "Weekly Weather and Crop Bulletin".

CHART IV. TOTAL SNOWFALL. CHART V. A. PERCENTAGE OF MEAN MONTHLY SNOWFALL. B. DEPTH OF SNOW ON GROUND. Chart IV gives the total depth in inches of unmelted snowfall as reported during the month by Weather Bureau and selected cooperative stations. This is converted in Chart V-A into a percentage of the mean monthly total amount computed for each Weather Bureau station having at least 10 years of record. The depth of snow on ground is that reported by both Weather Bureau and selected cooperative stations as of 7:00 a.m. Eastern Standard Time on the Monday nearest the end of the month. This is reported only for the months December through March. The snowfall charts are presented each month November through April.

Isolines for Charts I, II, III, IV, and V, are drawn through points of approximately equal value. Caution should be used in interpolating on these charts, particularly in mountainous areas.

CHART VI. A. PERCENTAGE OF POSSIBLE SUNSHINE. B. PERCENTAGE OF MEAN MONTHLY SUNSHINE. Chart VI-A shows the amount of sunshine received in terms of percentage of the total hours of sunshine possible during the month. In Chart VI-B this is shown as a percentage of the mean number of hours of sunshine received. Means are computed for Weather Bureau stations having at least 10 years of record.

CHART VII. A. AVERAGE DAILY VALUES OF SOLAR RADIATION LANGLEYS. B. PERCENTAGE OF MEAN DAILY SOLAR RADIATION. Shown on Chart VII-A are the monthly averages of daily total solar radiation, both direct and diffuse, in langleys (gm. cal. cm.⁻²) for all Weather Bureau and selected cooperative stations which record this element. The analyses include adjustments required to bring station records to approximately the same level of calibration. Adjusted numbers are in parentheses. Chart VII-B shows the percentages of the mean based on at least 5 years of record during the period 1950-1960, and corrected to the International

Pyrheliometer Scale of 1956.

CHART VIII. TRACKS OF CENTERS OF ANTICYCLONES AT SEA LEVEL.

CHART IX. TRACKS OF CENTERS OF CYCLONES AT SEA LEVEL. Centers which can be identified for 24 hours or more are tracked in these charts. Semi-permanent features such as the Great Basin and Pacific Highs and Colorado and Mexico Lows are not shown. The 7:00 a.m. EST positions are shown by open circles, with the intermediate positions at 6-hour intervals shown by solid dots. The date is given above the circle and the central pressure to whole millibars below. A dashed track indicates a regeneration rather than actual movement to the next position. Solid squares indicate position of stationary center for period shown beside it.

CHART X. AVERAGE SEA LEVEL PRESSURE (mb.) AND RESULTANT SURFACE WIND. The average monthly sea level pressures are obtained from eight daily 3-hourly observations reported at Weather Bureau Stations. Resultant surface wind directions (to 36 points of the compass) for the month are shown by arrows. Resultant speeds are in miles per hour and are indicated by the length of arrow shafts. Constancy ratios (resultant surface wind divided by average surface wind for month) are shown to two decimal places. The inset shows the departure of the average pressure based on 30-year normals for first-order Weather Bureau Stations, other stations having at least 10 years of record; and for each 10° intersection in a diamond grid over the oceans.

CHARTS XI-XVI. AVERAGE HEIGHT, TEMPERATURE, AND RESULTANT WINDS, 850, 700, 500, 300, 200, and 100 mb. Height is given in geopotential meters and temperature in degrees Celsius. These are the averages of the 1200 GMT radiosonde reports. Wind speeds are given in meters per second; flag represents 25 m.p.s., full feather 5 m.p.s., and half feather 2 1/2 m.p.s. Directions are shown to 360° of the compass. Winds are based on rawins at the indicated pressure surface and at 1200 GMT.

CHART XVII. A. 50-MB. RESULTANT WINDS. B. 30-MB. RESULTANT WINDS. Wind speed (isotachs) in meters per second. Arrows show resultant wind direction. Winds are based on rawins at the indicated pressure surface and at 1200 GMT.

Exact values of most of these charted elements for Weather Bureau stations are printed each month in tabular form in CLIMATOLOGICAL DATA, NATIONAL SUMMARY. Extreme values of temperature and precipitation for each state are included in the tables, Condensed Climatological Summary. Annual averages for surface elements are presented in the CDNS Annual Issue each year.

Chart 1. A. Normal Daily Average Temperature ($^{\circ}\text{F}$. 1931-60), January



B. Temperature Departure from 30 - Year Mean ($^{\circ}\text{F}$ 1931-60), January 1970.

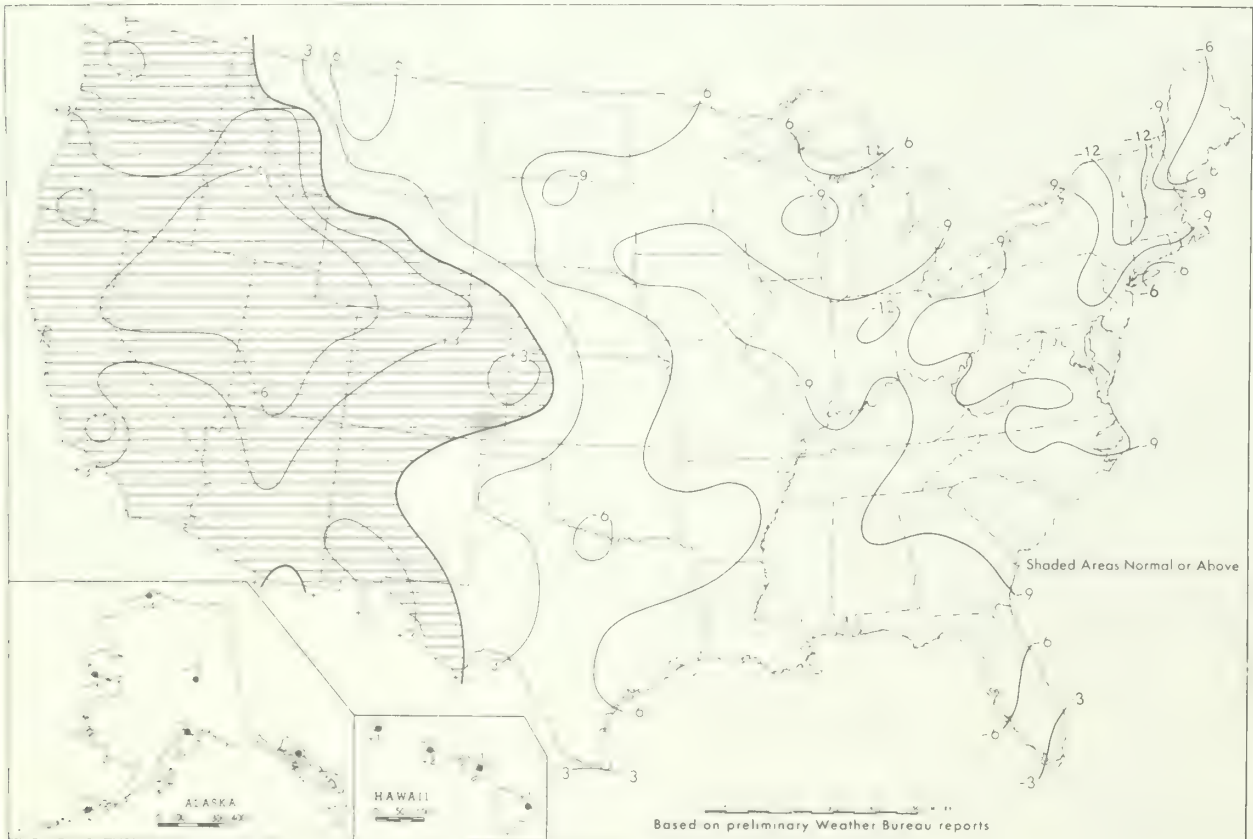


Chart II. Total Precipitation (Inches), January 1970.

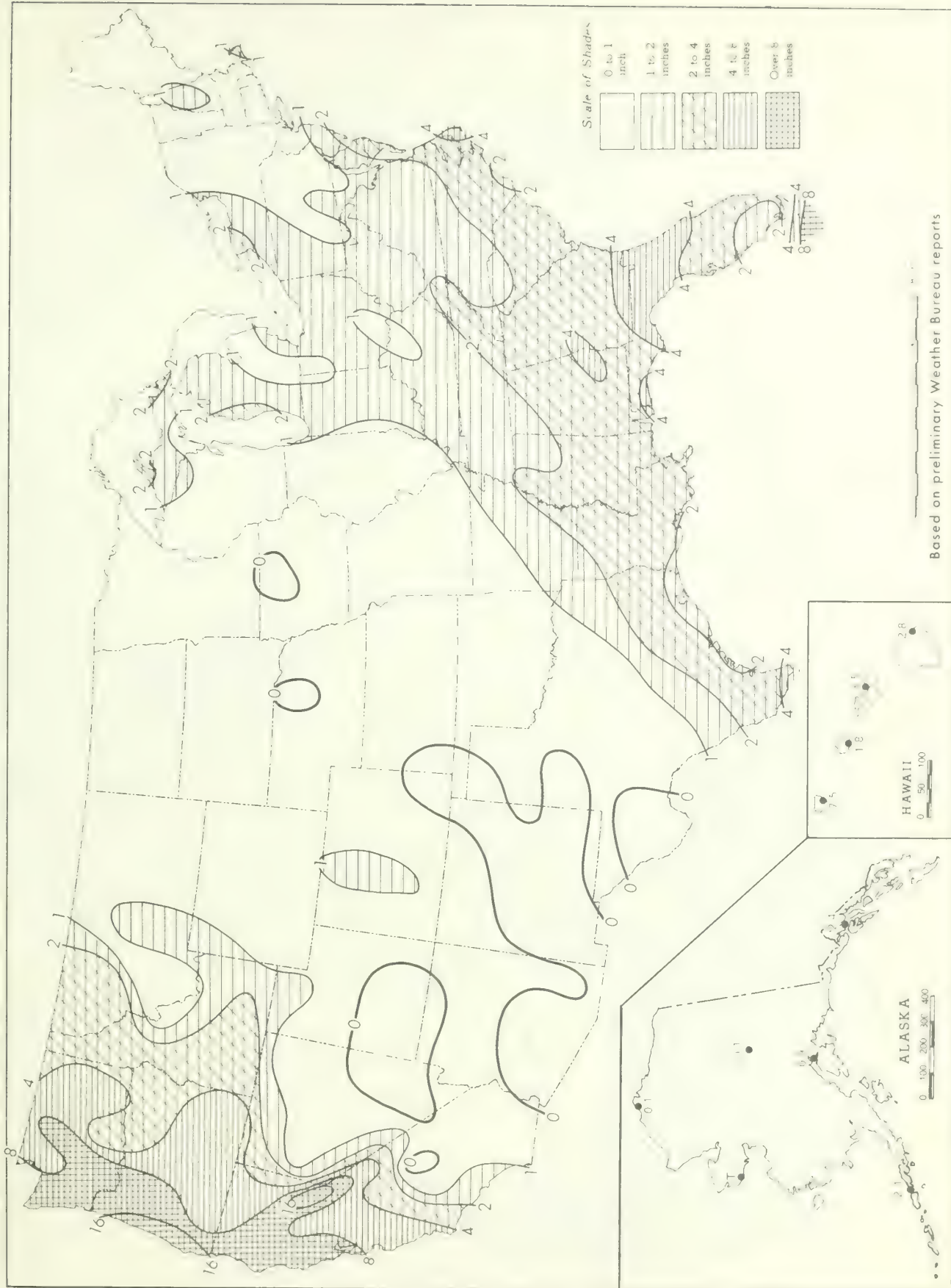


Chart III. Percentage of Normal Precipitation, January 1970.

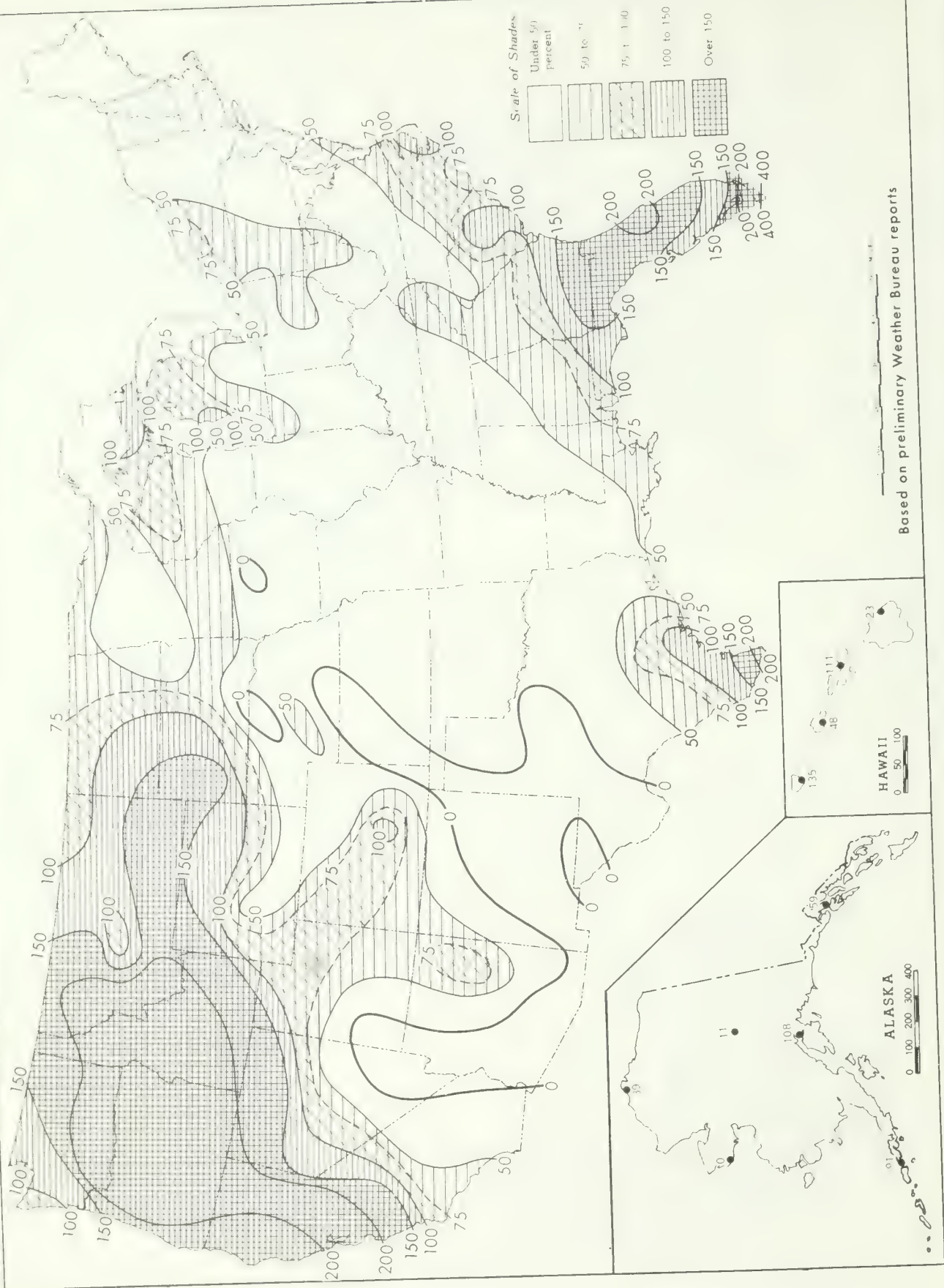
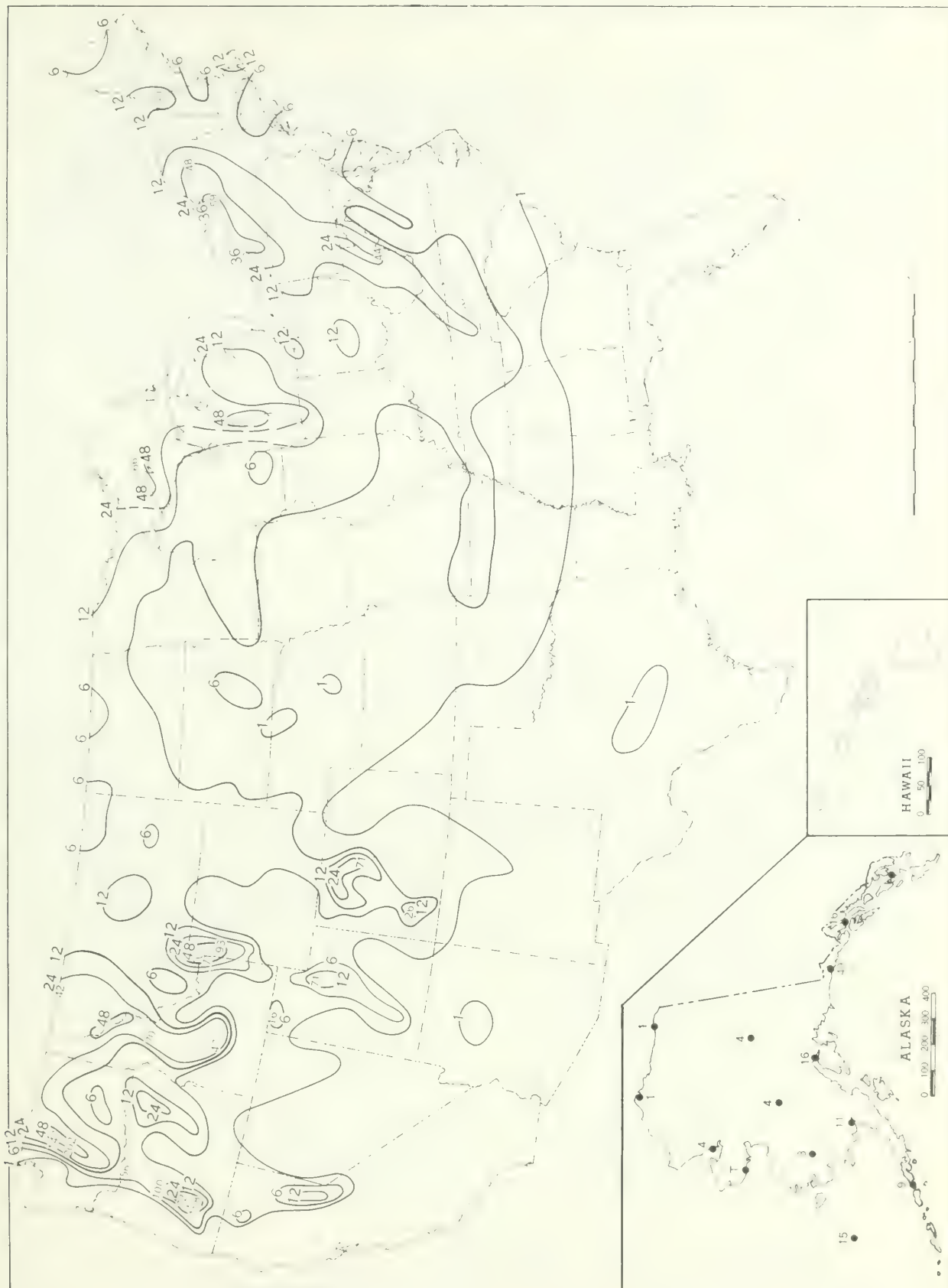


Chart IV. Total Snowfall (Inches), January 1970.

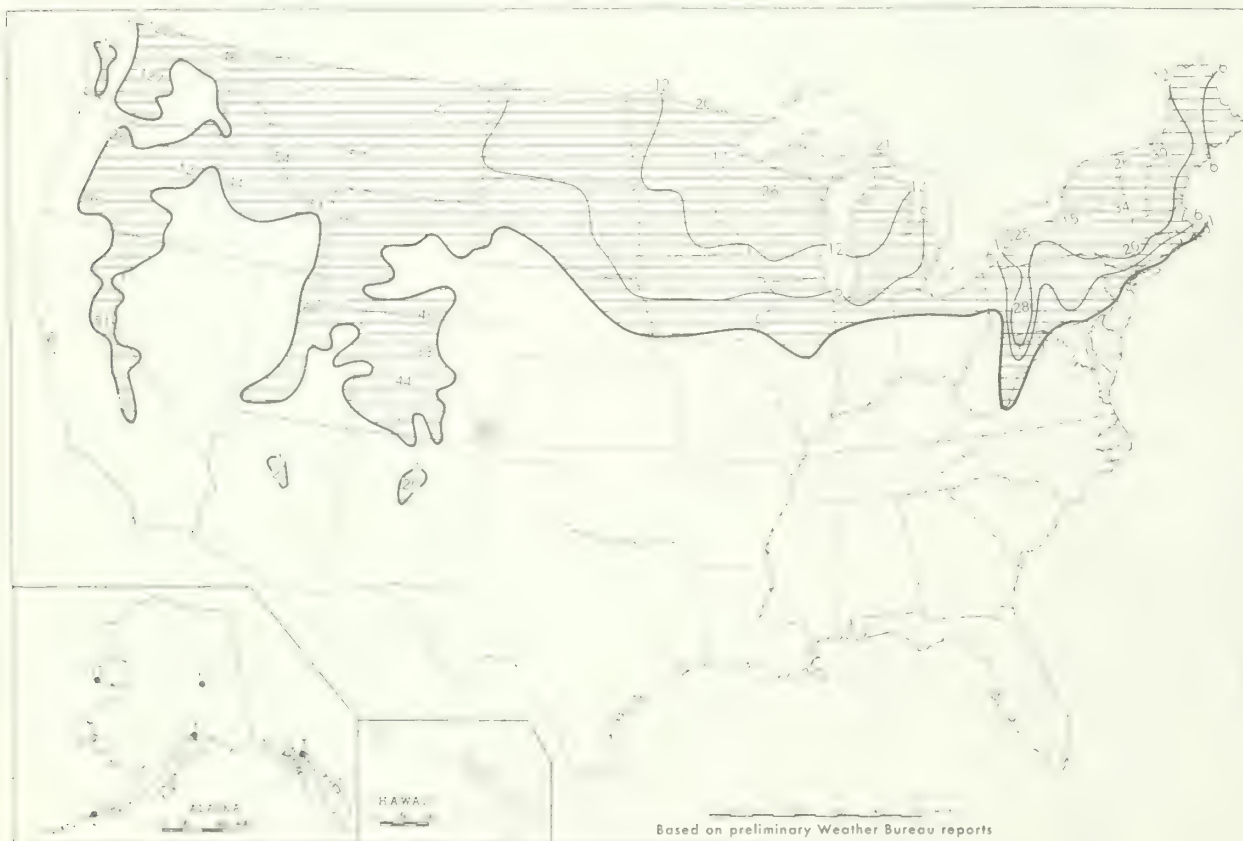


This is the total of unmelted snowfall recorded during the month at Weather Bureau and selected cooperative stations. This Chart and Chart V are published only for the months of November through April, although of course there is some snow at higher elevations, particularly in the Far West earlier and later in the year.

Chart V. A. Percentage of Mean Monthly Snowfall, January 1970.



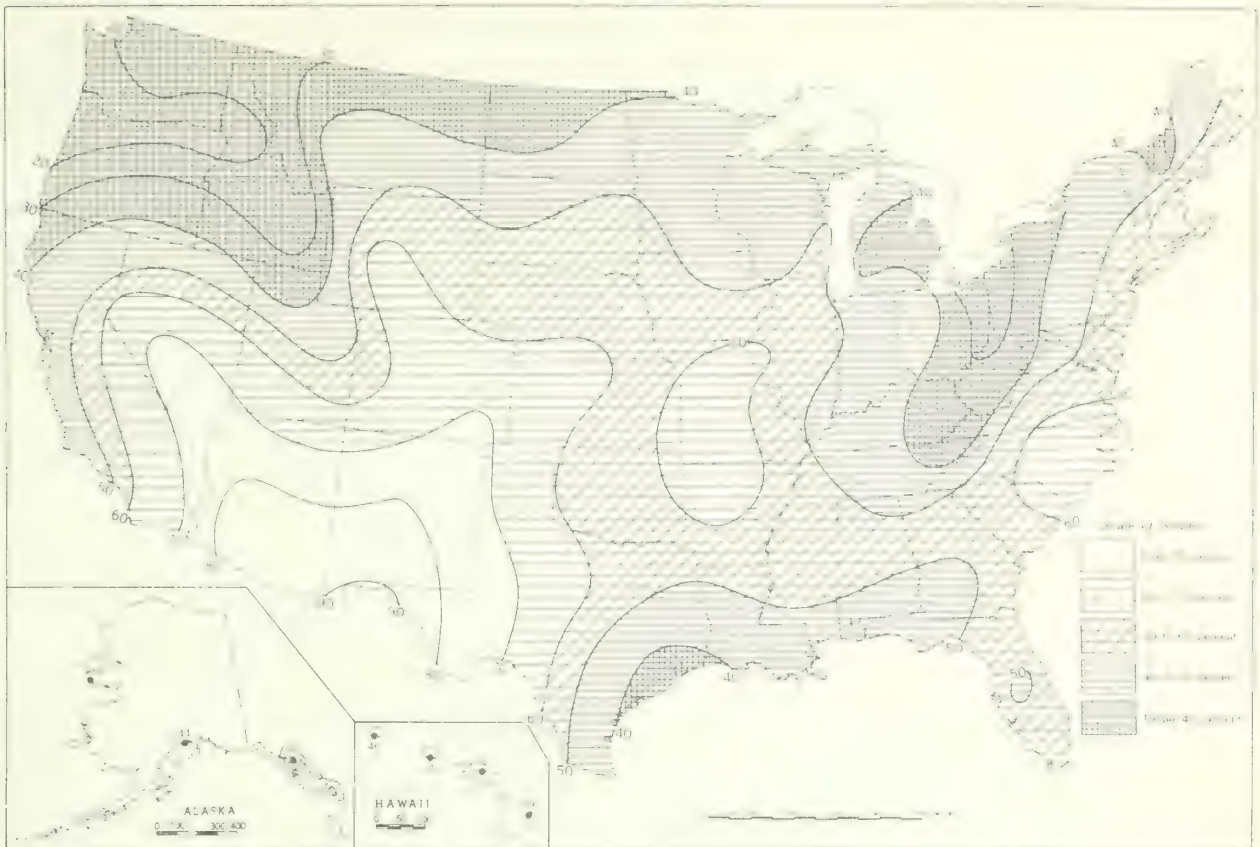
B. Depth of Snow on Ground (Inches), 7:00 a.m. E. S. T., January 26, 1970.



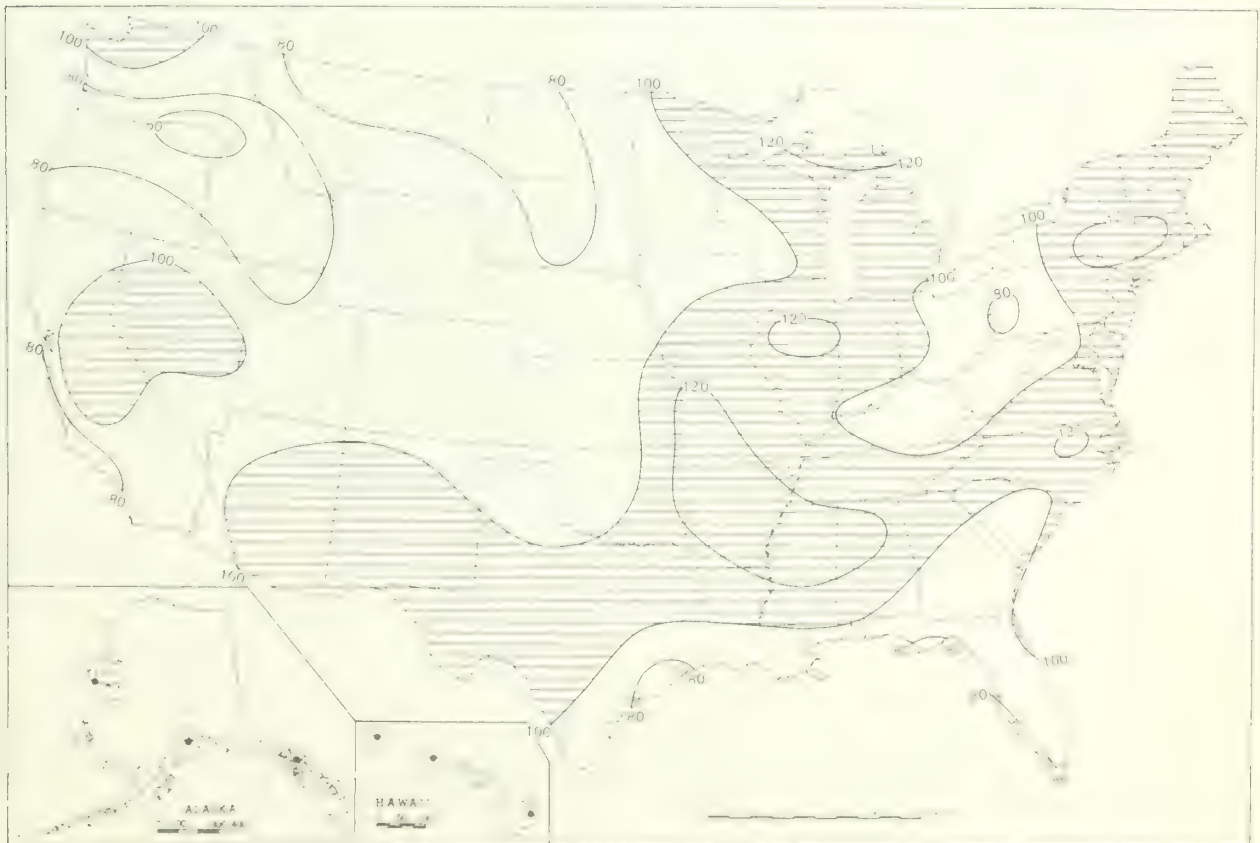
Based on preliminary Weather Bureau reports

- A. Amount of mean monthly snowfall is computed for Weather Bureau stations having at least 10 years of record.
 B. Shows depth currently on ground at 7:00 a.m. E.S.T., of the Monday nearest the end of the month.
 It is based on reports from Weather Bureau and selected cooperative stations.

Chart VI. A. Percentage of Possible Sunshine, January 1970.

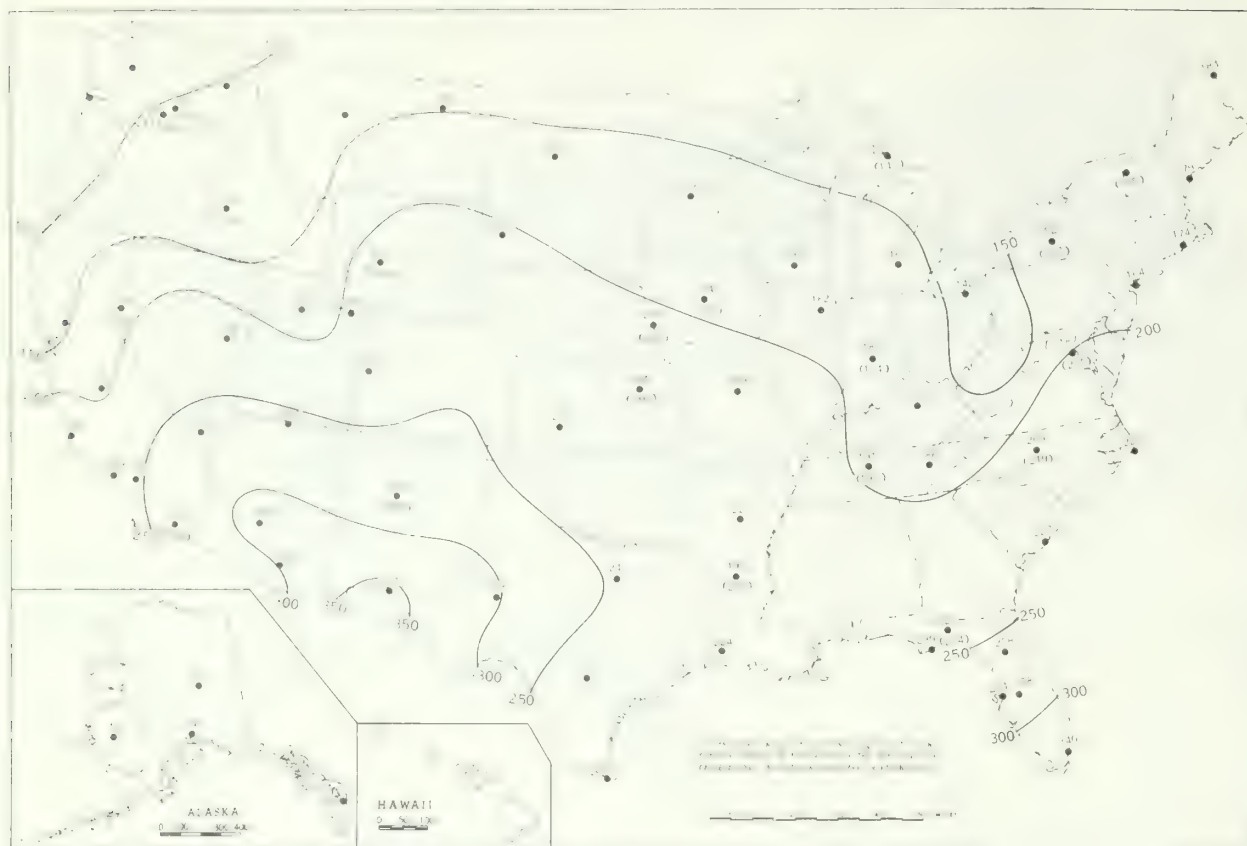


B. Percentage of Mean Monthly Sunshine, January 1970.

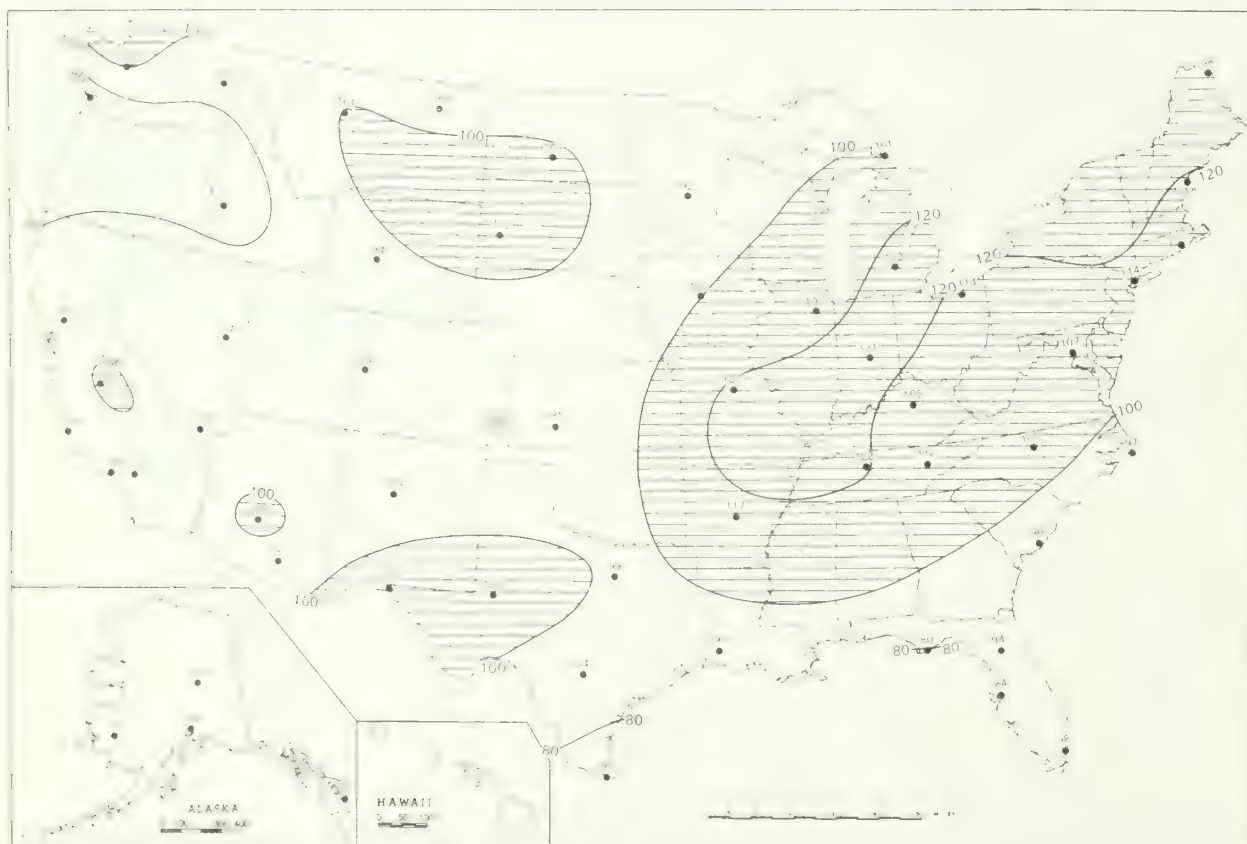


A. Computed from total number of hours of observed sunshine in relation to total number of possible hours of sunshine during month. B. Means are computed for stations having at least 10 years of record.

Chart VII. A. Average Daily Values of Solar Radiation, Langleys, January 1970.



B. Percentage of Mean Daily Solar Radiation, January 1970.



A. Mean daily solar radiation, direct + diffuse, received on a horizontal surface in langleys (1 langley = 1 gm. cal. cm.⁻²) and recorded in International Pyrheliometer Scale of 1956. B. Percentage of the mean based on at least 5 years of record during the period 1950-60, and corrected to the International Pyrheliometer Scale of 1956.

Chart VIII. Tracks of Centers of Anticyclones at Sea Level, January 1970.

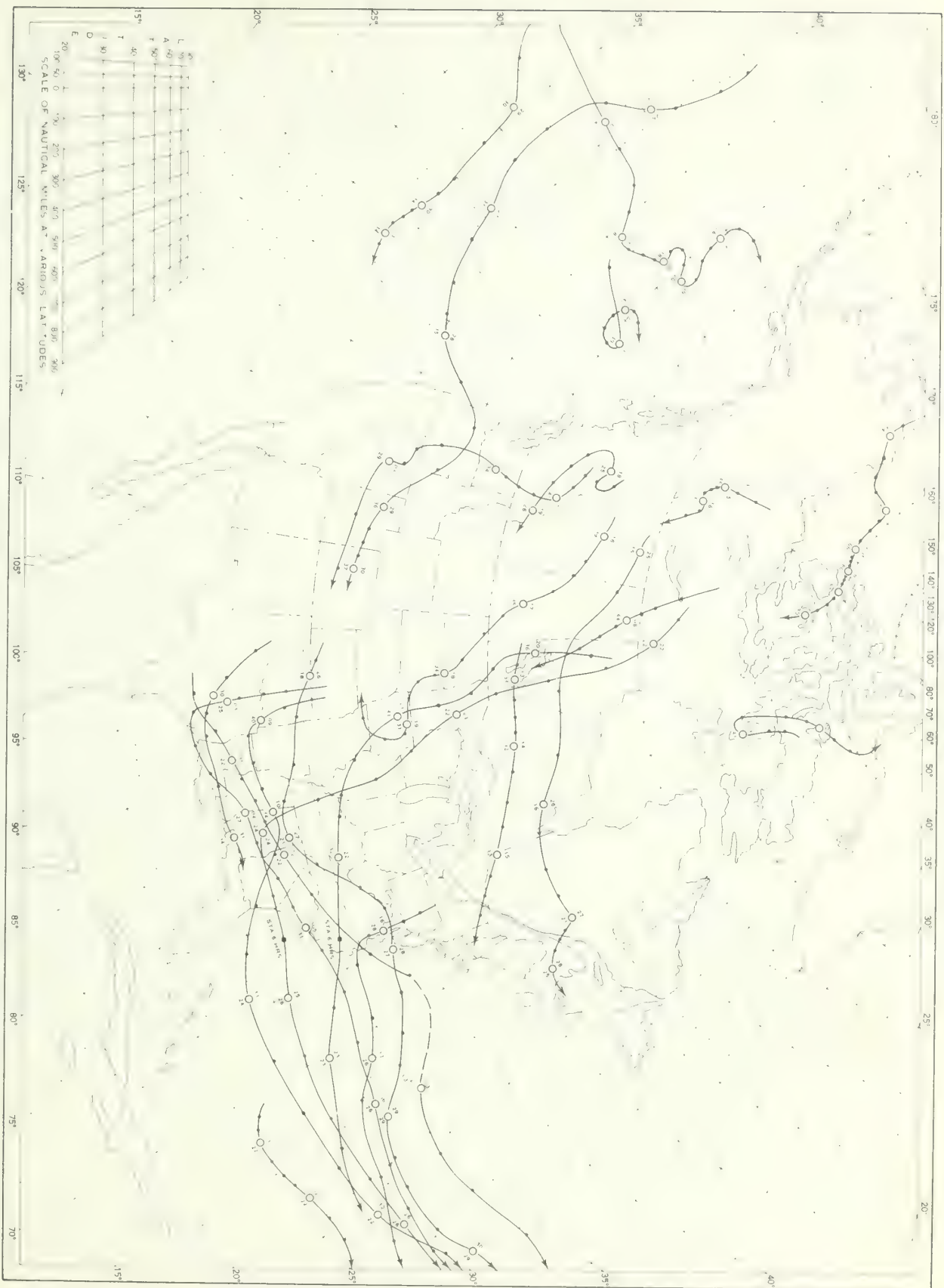


Chart IX Tracks of Centers of Cyclones at Sea Level, January 1970

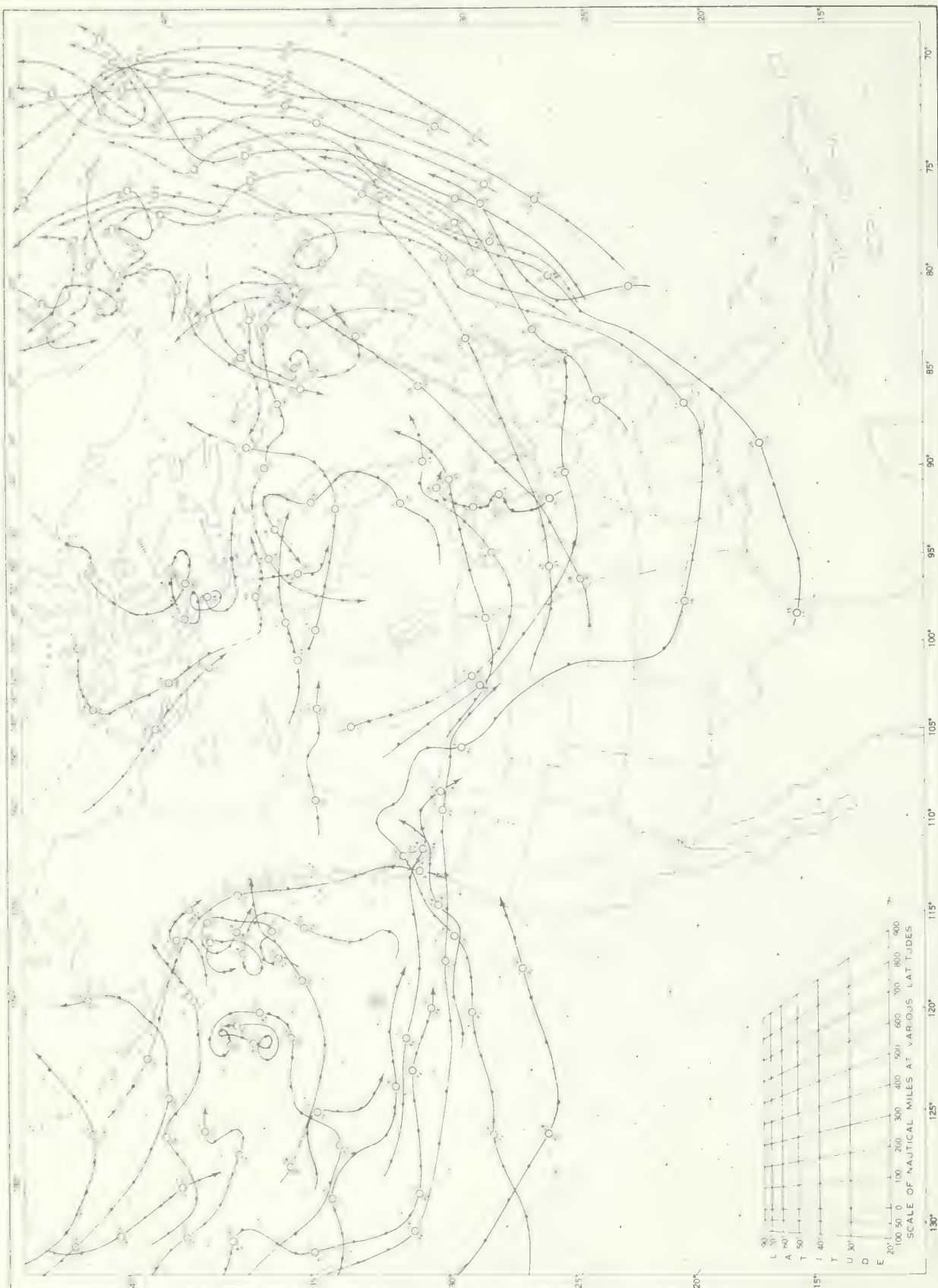


Chart X. Average Sea Level Pressure (mb) and Resultant Surface Wind, January 1970. Inset Departure of

Average Pressure (mb) from Normal, January 1970.

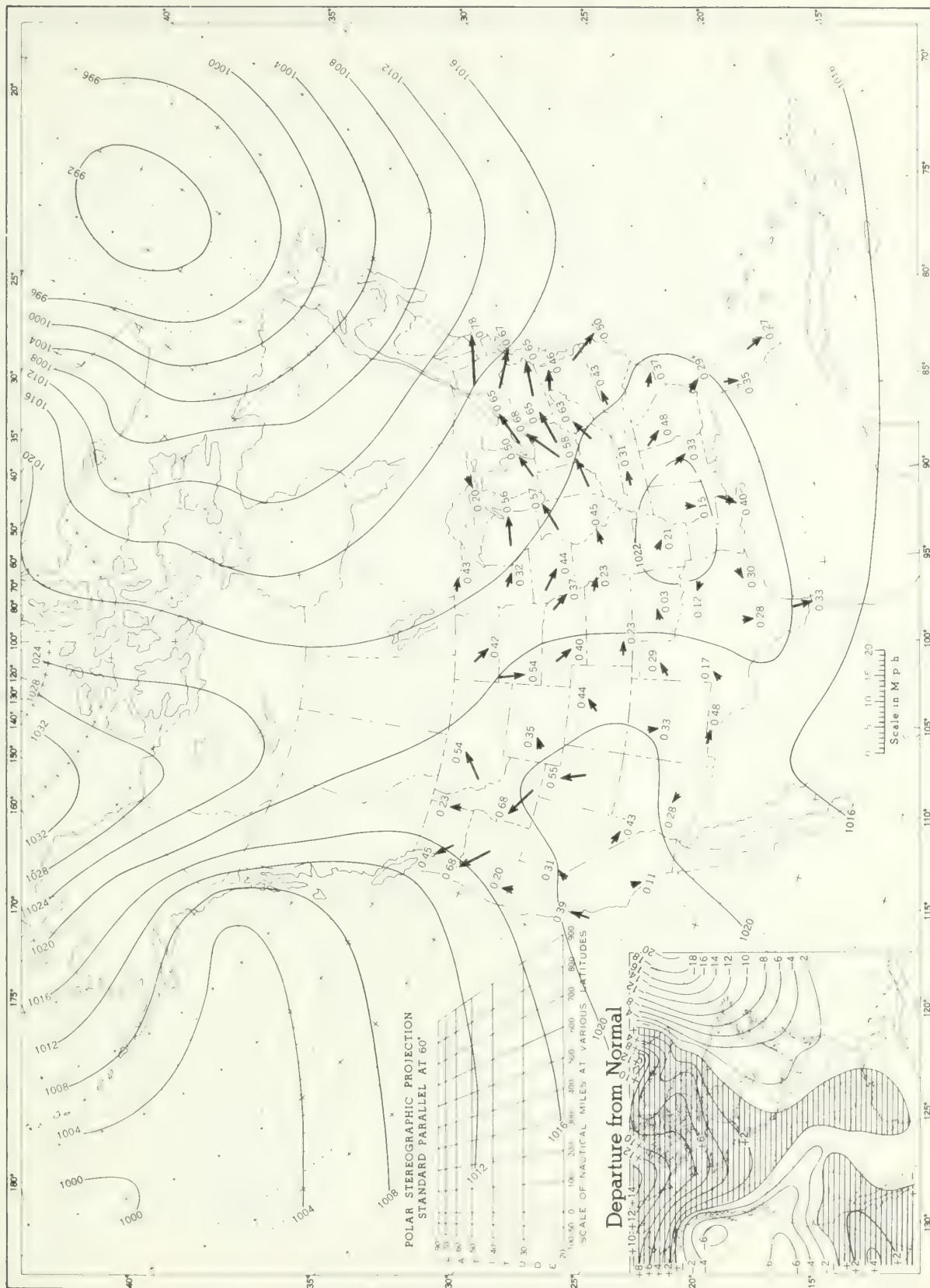
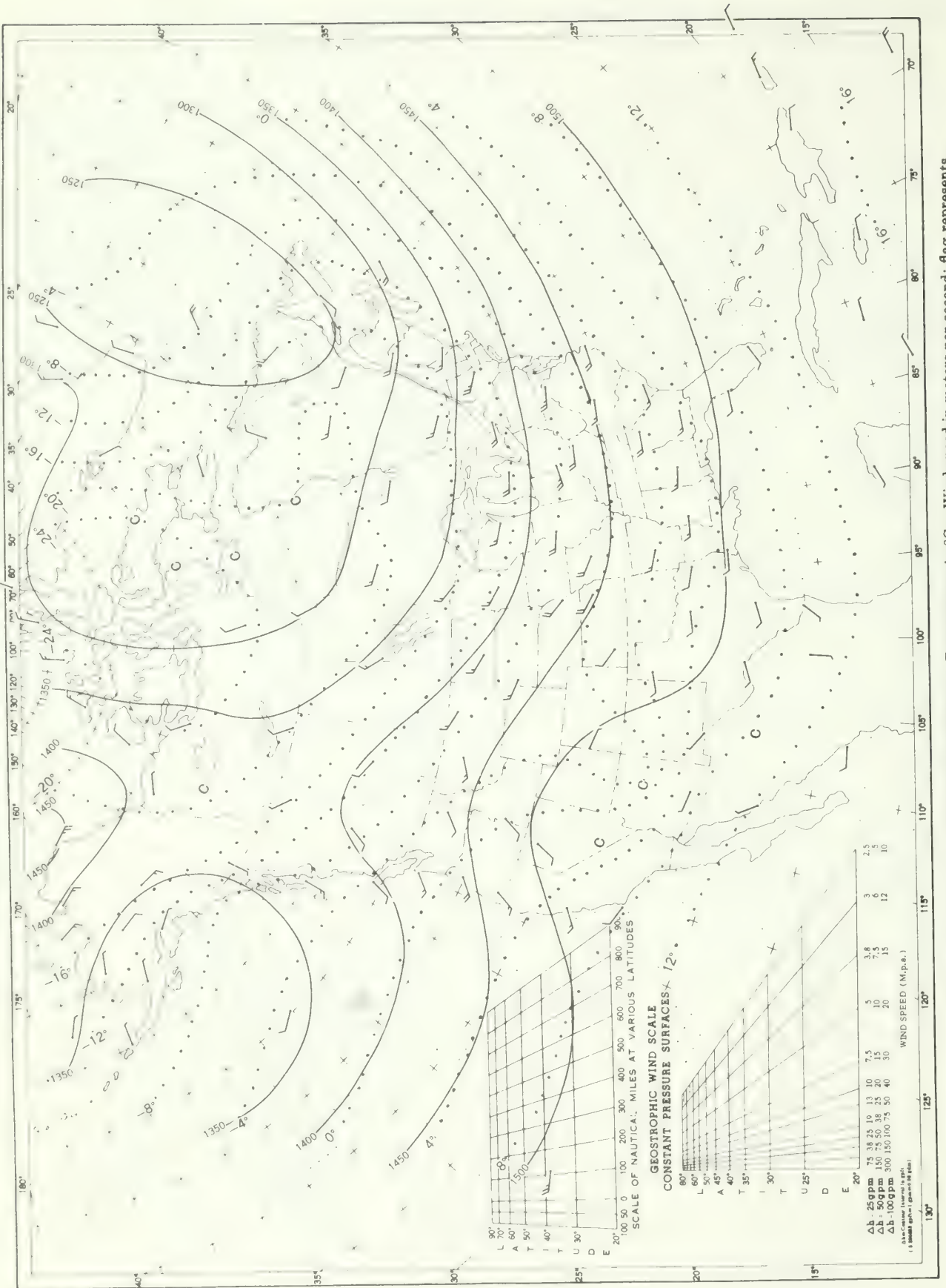


Chart XI 350-mb Surface, 1200 GMT, January 1970. Average Height and Temperature, and Resultant Winds.



Height in geopotential meters (1 g.p.m. = 0.98 dynamic meters). Temperature in $^{\circ}\text{C}$. Wind speed in meters per second; flag represents 25 mps, full feather 5 mps, and half feather 2.5 mps. All wind data are based on rawin observations.

Chart XII. 700-mb Surface, 1200 GMT, January 1970. Average Height and Temperature, and Resultant Winds.

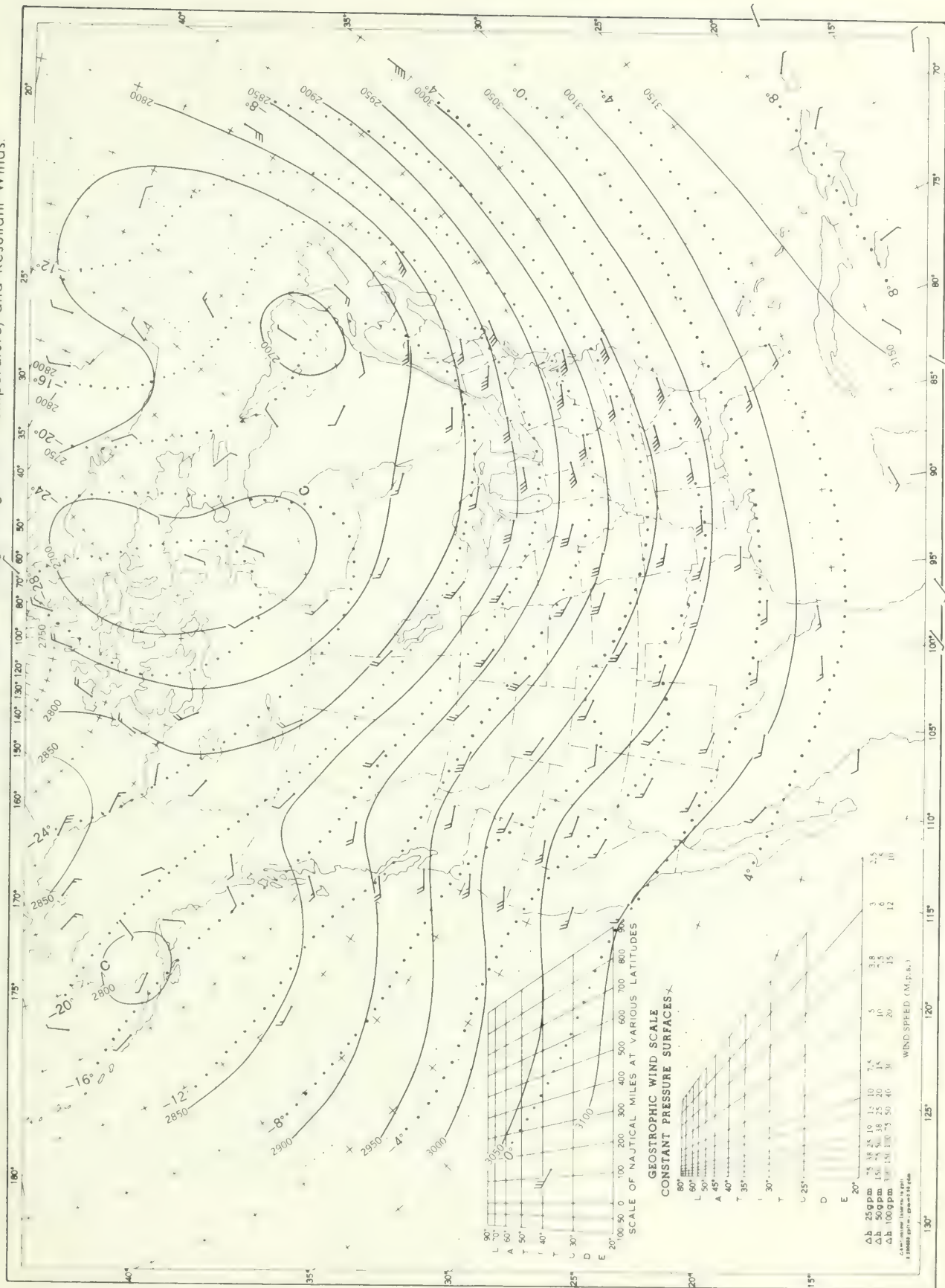
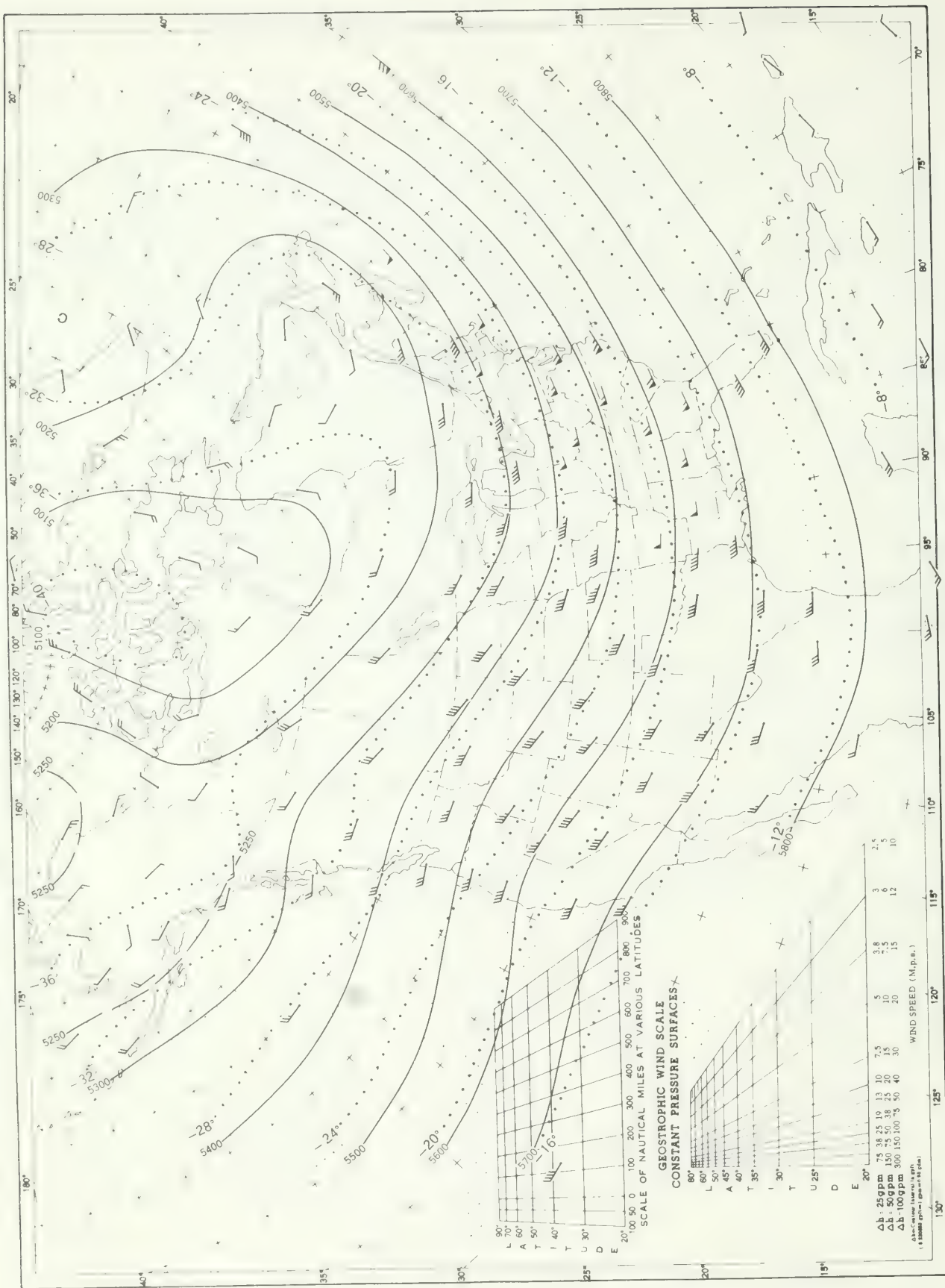
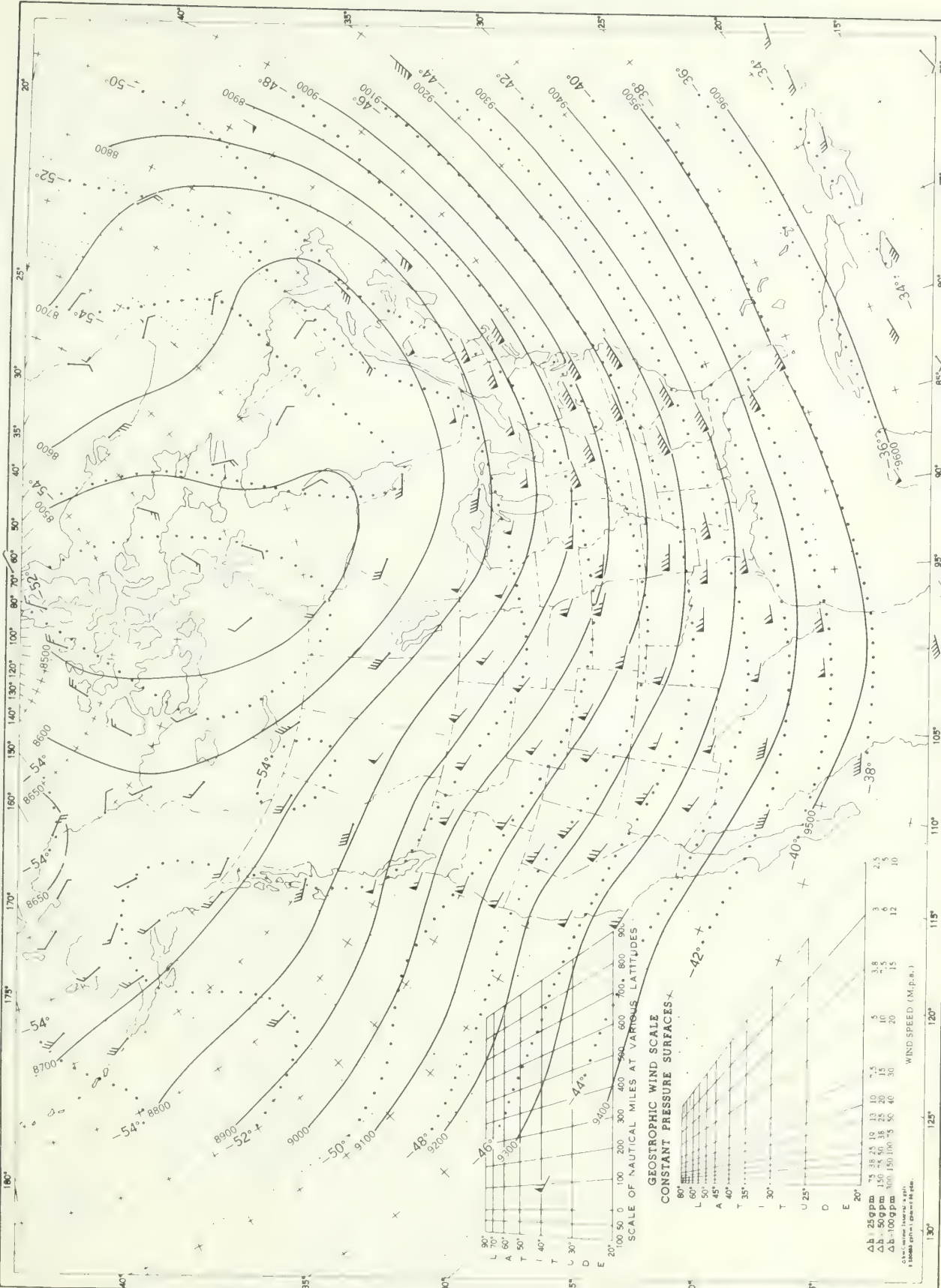


Chart XIII 500-mb. Surface, 1200 GMT, January 1970. Average Height and Temperature, and Resultant Winds



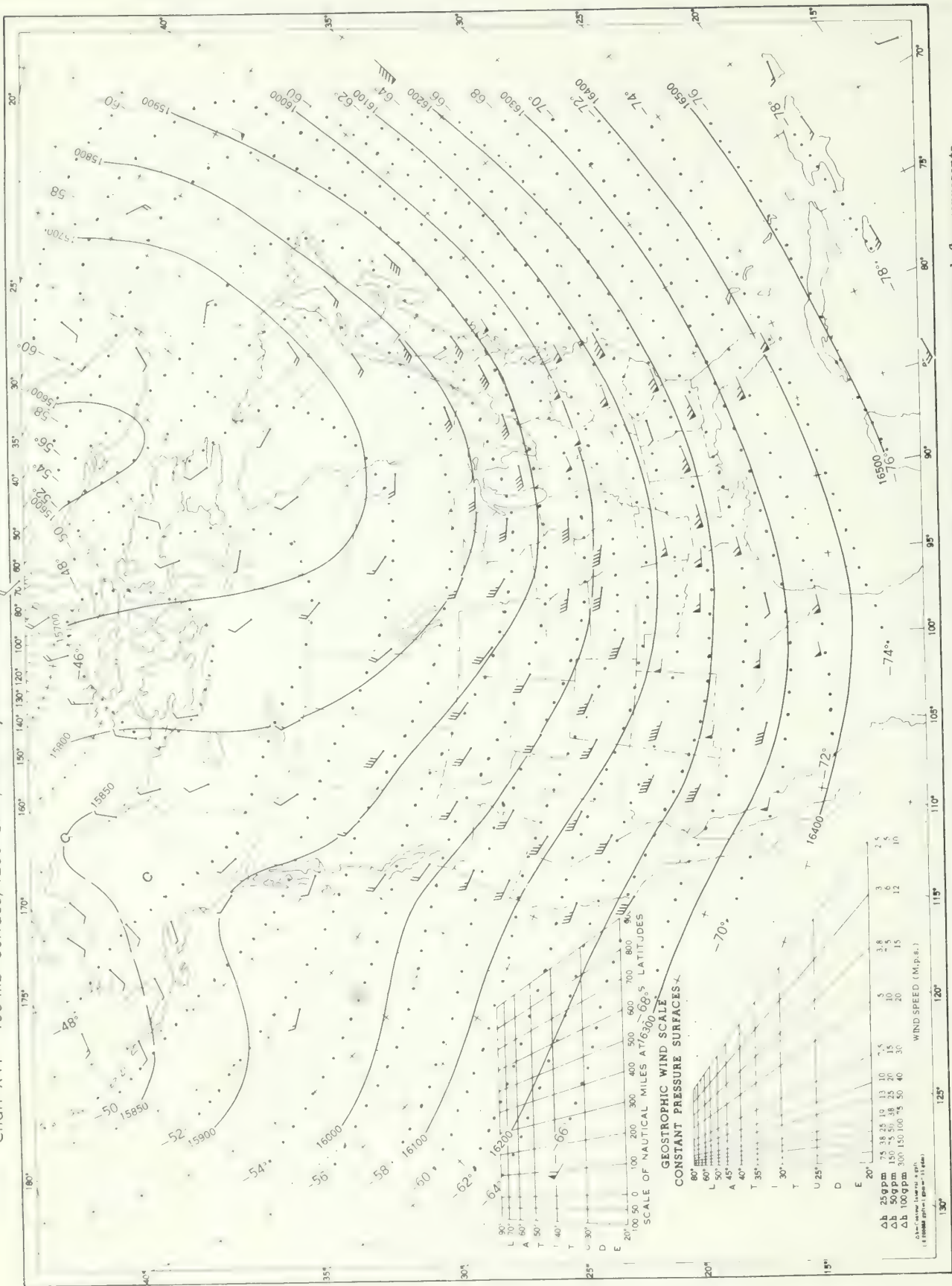
Height in geopotential meters (1 g.p.m. = 0.98 dynamic meters). Temperature in °C. Wind speed in meters per second; flag represents 25mps, full feather 5mps, and half feather 2.5 mps. All wind data are based on rawin observations.

Chart XIV. 300-mb. Surface, 1200 GMT, January 1970. Average Height and Temperature, and Resultant Winds.

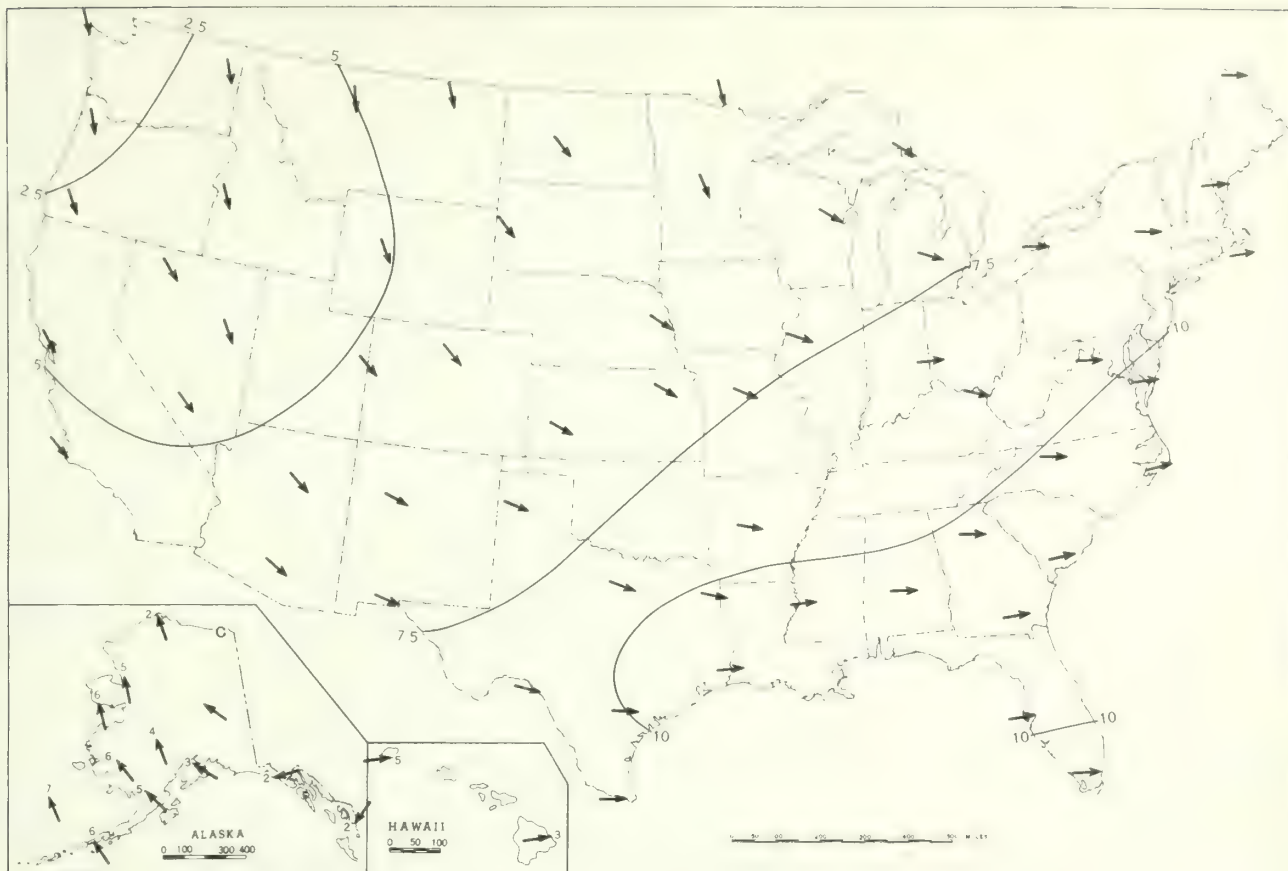


Height in geopotential meters (1 g. p. m. = 0.98 dynamic meters). Temperature in °C. Wind speed in meters per second; flag represents 25 mps, full feather 5 mps, and half feather 2.5 mps. All wind data are based on rawin observations.

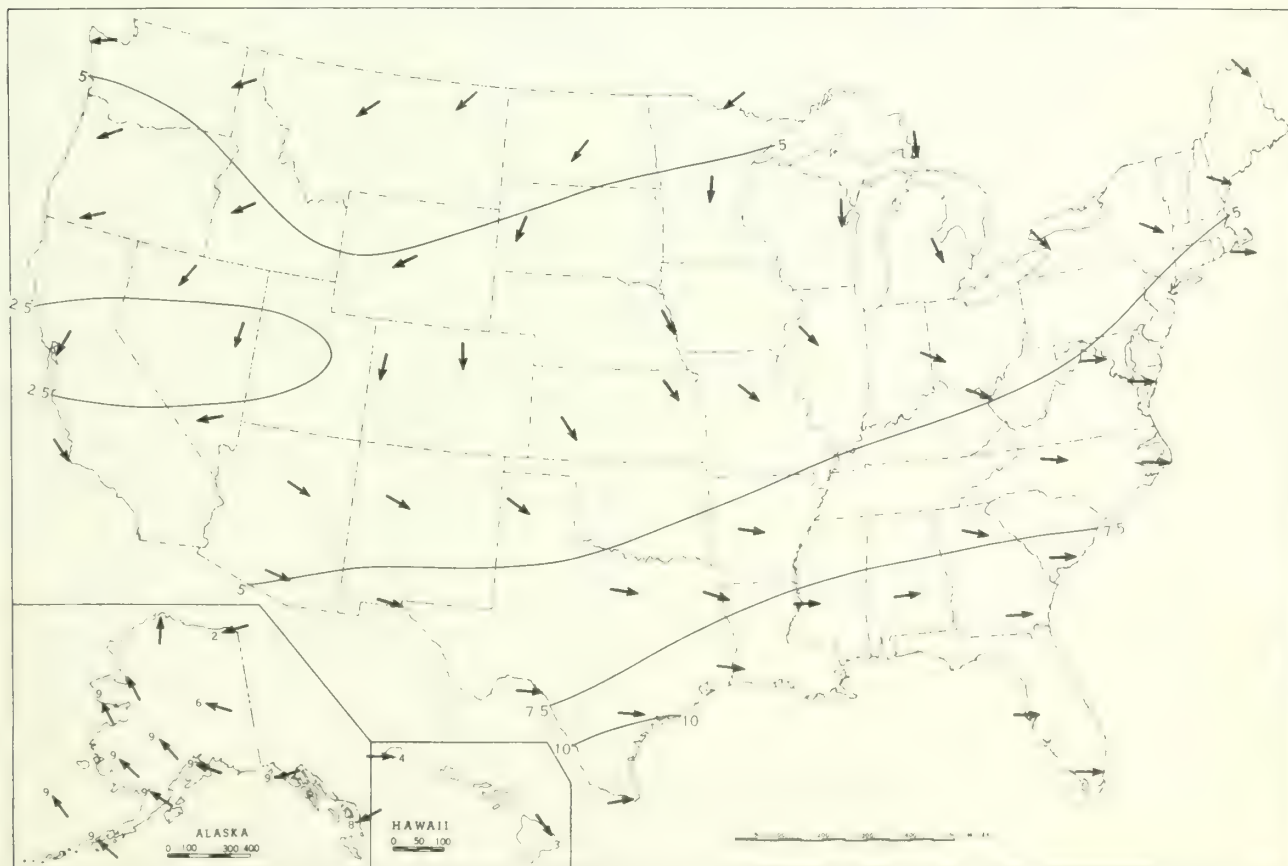
Chart XVI 100-mb Surface, 1200 GMT, January 1970. Average Height and Temperature, and Resultant Winds.



Height in geopotential meters (1 g.p.m. = 0.98 dynamic meters). Temperature in °C. Wind speed in meters per second; flag represents 25 mps, full feather 5 mps, and half feather 2.5 mps. All wind data are based on rawin observations.

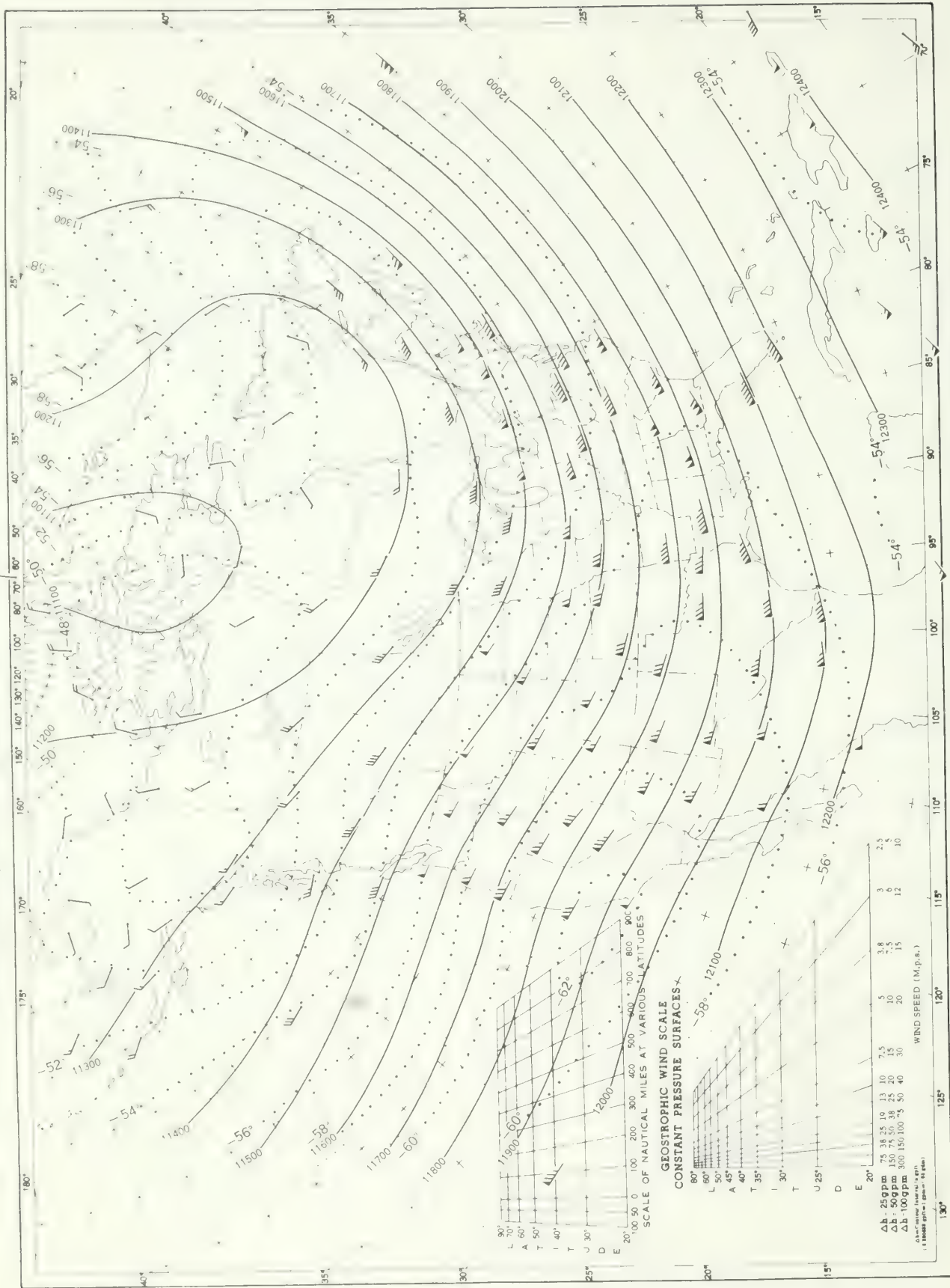


B. 30-mb. Surface, 1200 GMT, January 1970. Resultant Winds.



Wind speed (isotachs) in meters per second. Arrows show resultant wind direction. All wind data are based on rawin observations.

Chart XV 200-mb Surface, 1200 GMT, January 1970. Average Height and Temperature, and Resultant Winds



Height in geopotential meters (1 g. p. m. = 0.98 dynamic meters). Temperature in °C. Wind speed in meters per second; flag represents 25 mps, full feather 5 mps, and half feather 2.5 mps. All wind data are based on rawin observations.

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Climatological Data

NATIONAL SUMMARY

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JANUARY

1970

Volume 21

No. 2

Wilmington, N.C.

1970

C O N T E N T S

| | |
|---|------|
| SURFACE DATA | Page |
| General Summary of Weather Conditions----- | 59 |
| Observed Extremes of Temperature and Precipitation - By States----- | 60 |
| Climatological Data - Stations - English Units----- | 61 |
| Climatological Data - Stations - Metric Units----- | 68 |
| Heating Degree Days----- | 75 |
| Cooling Degree Days----- | 76 |
| Storm Summary----- | 77 |
| General Summary of River and Flood Conditions----- | 78 |
| Flood Stage Data----- | 81 |
| UPPER AIR DATA | |
| Rawinsonde Data----- | 82 |
| SOLAR RADIATION DATA | |
| Solar Radiation Intensities----- | 88 |
| Daily Totals and Monthly Averages----- | 89 |
| Net Radiation----- | 91 |
| Solar Ultra-Violet Radiation----- | 91 |
| TOTAL OZONE DATA----- | 91 |
| CHARTS I-XVII----- | 92 |

NOTE: Delayed data and corrections will be carried in the June and December issues of this publication. An explanatory page "Description of Charts" will be carried in the January and July issues.

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CLIMATOLOGICAL DATA

NATIONAL SUMMARY

Volume 21 No. 2

FEBRUARY 1970

GENERAL SUMMARY OF WEATHER CONDITIONS

HIGHLIGHTS:

1. February was unusually warm over parts of the West.
2. Very little precipitation fell from the central Rocky Mountains to the Great Lakes. In some localities February 1970 was the driest February of record.
3. Heavy rains caused local flooding in parts of the Northeast and freezing rains caused hazardous highway travel in some areas.

TEMPERATURE.--Temperatures over the western half of the United States averaged above normal throughout the month of February, continuing the trend that began early in January. It was especially warm from central Idaho to northern Arizona and from southeastern Oregon to central Colorado in the first half of the month, when temperatures over that area averaged from 9° to more than 12° above normal. Above-normal average temperatures prevailed over the West in the third week of February, in spite of cooler weather late in the week. The northern and central Rocky Mountains averaged 6° to more than 9° above normal in the third week of February and parts of the central Rockies and northern Great Plains averaged 6° to 12° above normal in the last week of the month.

In contrast to the persistent mild weather over the West, cool temperatures prevailed over the East through the entire month. Subfreezing temperatures plunged far southward early in February. New Orleans, La., registered 19° and Blairsville, Ga., registered 3° below zero on the morning of the 4th. On the same morning, the temperature at Sault Ste. Marie, Mich., dropped to 24° below zero. Gradual warming brought mild temperatures to the East on Sunday, February 8, but the mild weather was soon replaced by freezing temperatures which again plunged southward to the Gulf of Mexico. Scattered frosts occurred in northern and central Florida on the 10th and 11th. About midmonth, an arctic blast brought subzero temperatures to the North Central States and parts of the Northeast. Moline, Ill., registered 7° below zero on the morning of the 13th.

Southerly winds warmed the Great Plains shortly after midmonth. Western Kansas warmed to the 80's on the 17th, and Nebraska, with 70° temperatures, was as warm as Florida. Two days later, however, very cold arctic air plunged southward over mid-America and temperatures in parts of Missouri and Arkansas dropped 40° or more in 10 to 12 hours. Mild temperatures prevailed over the East early and late in the last week of February, but were not warm enough to offset the midweek chill when subfreezing weather was common over the Deep South almost to the Gulf of Mexico and subzero weather occurred in the mountains of West Virginia. A warming trend was in progress over the East as the month ended.

PRECIPITATION.--Generous precipitation fell in the far Northwest in the first 3 weeks of February, with little precipitation in the final week. The precipitation fell as rain along the coast and in the inland valleys and as snow in the nearby Cascades and eastward to the northern Rocky Mountains. Totals exceeded 4 inches along the coast of Washington and Oregon and tapered to 1 inch in eastern Washington and to less than an

inch in eastern Oregon. Generous rains fell along the southern California coast in the second and last weeks of February, especially on February 28.

A large area extending from Nevada and Arizona northeastward to the Great Lakes received less than an inch of rain in the entire month. Some localities in that region received no rain or only light sprinkles.

Northern Florida received 2 to 4 inches or more in the first week of February when some heavy rains also fell along portions of the Atlantic coast. Some localities in eastern and south-central Texas received moderate to heavy showers late in the week. Light snow fell on several days in Kentucky and Tennessee with rain farther south. Early in the week a storm hit New England. The rain caused local flooding and erosion and the accompanying high winds damaged buildings, trees, and utility lines. Gusts reached 92 m.p.h. at Blue Hill Observatory, Milton, Mass., on February 2 and 102 m.p.h. on the 3d.

Stormy weather brought snow to much of the northeast quarter of the Nation in the second week of February. Sometimes the snowfall was mixed with sleet and freezing rain. The heaviest snow of the season hit parts of the southern Appalachians, accumulating to 20 inches at Holston Mountain, about 15 miles east of Bristol, Tenn., by midforenoon on the 10th. By early the following day, western and central Pennsylvania had accumulated 10 to 18 inches of snow. Mt. Washington, N. H., received 10.12 inches of precipitation in 18 hours ending at 6 a.m. February 11. The gusts at Mt. Washington reached 123 m.p.h. and, in 3 hours, ice accumulated to a thickness of 1 foot. Midmonth brought more miserable weather to much of the East--mixtures of snow, sleet, and freezing rain. On the 14th, highway travel became hazardous over a dozen States from Missouri and Arkansas across the Ohio River Valley to the middle Atlantic coast. The light rains in the central Great Plains improved the topsoil moisture but were insufficient to prevent wind erosion.

In the third week of the month, a Pacific storm lashed the coast of Washington, Oregon, and northern California with strong winds--which gusted to 85 m.p.h. at Cape Blanco, Oreg., on the forenoon of the 16th--and heavy rain, with snow in the higher elevations. Meanwhile, another storm spread showers and a few thunderstorms from Alabama to the Virginias, Maryland, and Delaware.

A heavy downpour dumped 9.21 inches of rain at Eglin Air Force Base near Valparaiso in the Florida Panhandle in 24 hours ending at 7 p.m., February 16. Freezing rain fell in the northern sections of the precipitation belt. Light snow flurries fell in some northern sections of the Country, while strong winds, racing down the eastern slopes of the Rocky Mountains, picked up considerable dust in the western edge of the central Great Plains. Snow fell above about 4,000 feet in Arizona late in the third week of February.

The last week of February began sunny and pleasant over most of the Nation. An exception was in eastern Texas where generous rains caused many streams to rise to or near their flood stages. Wide areas in the West continued dry. Even the State of Washington re-

GENERAL SUMMARY OF WEATHER CONDITIONS-Continued

FEBRUARY 1970

ceived only light spotty showers and the Florida Peninsula received little rain of importance. As the week progressed, the Deep South from Louisiana to the Carolinas received from 0.50 to 1.50 inches. Near the end of the month, snow began falling in the northern Rocky Mountains and across the northern Great Plains

and the Great Lakes region to the northern Appalachians. Freezing rain slicked the highways in parts of Nebraska, Minnesota, and Iowa, and rain fell from the Ohio River Valley to the western portion of the Gulf coast. The month ended with many parts of the Nation receiving snow, freezing rain, or rain.

OBSERVED EXTREMES OF TEMPERATURE AND PRECIPITATION -- BY STATES

| STATE | Temperature | | | | | | Precipitation | | | | | |
|----------------|-------------------------|---------|------|------------------------|--------|------|------------------------|----------|------------------------|-------|--|--|
| | Monthly extremes | | | | | | Monthly extremes | | | | | |
| | Station | Highest | Date | Station | Lowest | Date | Station | Greatest | Station | Least | | |
| | | °F | | | °F | | | In. | | In. | | |
| Alabama | Martin Dam | 82 | 28 | Bridgeport 2 W | 1 | 4 | Chatom 3 N | 6.56 | Aliceville | 1.40 | | |
| Alaska | 3 Stations | 55 | 28+ | Eagle | -53 | 1 | Little Port Walter | 23.37 | Alpine Inn | .00 | | |
| Arizona | Sacaton | 89 | 9 | Greer | -5 | 2 | Black River Pumps | 1.43 | Ariz Sonora Desert Mus | .00 | | |
| Arkansas | 2 Stations | 76 | 18 | 3 Stations | 2 | 4+ | De Queen | 6.90 | Rogers | .79 | | |
| California | 2 Stations | 90 | 8+ | Bodie | -12 | 18 | Honeydew 2 WSW | 10.40 | 2 Stations | .00 | | |
| Colorado | 2 Stations | 83 | 18+ | Taylor Park | -29 | 20 | Berthoud Pass | 2.81 | 21 Stations | .00 | | |
| Connecticut | Stamford 3 N | 56 | 22 | Norfolk 2 SW | -8 | 26 | Prospect | 6.62 | North Branford | 2.72 | | |
| Delaware | Shelbyville | 62 | 19 | Wilmington Porter Res | 6 | 26 | Selbyville | 4.55 | Middletown 1 WSW | 1.61 | | |
| Florida | 2 Stations | 86 | 17 | 2 Stations | 14 | 4 | Niceville | 11.32 | Nittaw 1 S | .75 | | |
| Georgia | Douglas 2 NNE | 79 | 20 | Blairsville Exp Sta | -3 | 4 | Colquitt 2 E | 6.53 | Cartersville | 1.11 | | |
| Hawaii | Kaala 92 | 89 | 13 | Mauna Loa Slope Obs. | 26 | 17+ | Kukiaia 222 | 7.48 | 3 Stations | .00 | | |
| Idaho | Orofino | 68 | 27 | Island Park Dam | -19 | 19 | Elk River 1 S | 4.14 | 4 Stations | T | | |
| Illinois | 2 Stations | 68 | 18 | Stockton | -14 | 3 | 2 Stations | 3.08 | La Harpe | .13 | | |
| Indiana | 3 Stations | 66 | 18+ | Valparaiso Waterworks | -9 | 4 | Evans Landing Dam 43 | 3.57 | Logansport Radio WSAL | .24 | | |
| Iowa | 5 Stations | 66 | 18+ | Malford 4 NW | -24 | 3 | Tripoli | .70 | 9 Stations | T | | |
| Kansas | Hays 1 S | 88 | 18 | Sabetha Lake | -3 | 3 | Enterprise | .70 | 36 Stations | .00 | | |
| Kentucky | Pikeville | 73 | 18 | Grayson 5 SE | -14 | 4 | Scottsville 3 SSW | 5.03 | Covington WBAP | 1.68 | | |
| Louisiana | 2 Stations | 80 | 14+ | Ruston La Polytech Ins | 13 | 3 | Lake End | 5.35 | Paradis 7 S | 1.05 | | |
| Maine | Millinocket FAA AP | 54 | 3 | Fort Kent | -30 | 27 | Hiram | D7.67 | Fort Kent | 1.98 | | |
| Maryland | Denton 1 WNW | 68 | 22 | Bittering 2 NW | -9 | 4 | Catoctin Mountain Park | 4.43 | Cumberland Police Bks | 1.04 | | |
| Massachusetts | 2 Stations | 59 | 3 | 2 Stations | -10 | 14+ | Southbridge 3 SW | 6.82 | South Egremont | 2.69 | | |
| Michigan | 2 Stations | 53 | 25+ | Stambaugh 1 S | -35 | 14 | Ionia 5 NW | 2.29 | Big Bay 3 SE | .10 | | |
| Minnesota | Crane Lake Ranger Sta | 52 | 23 | Baudette 21 SSE | -41 | 3 | Hallock | 1.13 | 2 Stations | .00 | | |
| Mississippi | Picayune | 77 | 2 | 2 Stations | 7 | 4 | Standard | 5.73 | Utica | 1.95 | | |
| Missouri | 3 Stations | 75 | 19+ | 5 Stations | -5 | 4+ | Caruthersville | 3.21 | Auxvasse | T | | |
| Montana | 3 Stations | 67 | 9 | Raymond Border Station | -25 | 18 | Summit | 5.73 | 7 Stations | .00 | | |
| Nebraska | Beaver City | 83 | 17 | Valentine WBAP | -11 | 3 | Lincoln WB City | .65 | 6 Stations | .00 | | |
| Nevada | Sunrise Manor Las Vegas | 81 | 8 | Mountain City RS | -8 | 19 | North Fork MNTC Sta | 2.10 | Beowawe | .00 | | |
| New Hampshire | 3 Stations | 56 | 4+ | Mount Washington | -30 | 23 | Mount Washington | 22.29 | Lancaster | 2.05 | | |
| New Jersey | Tuckerton | 61 | 25 | Sussex 1 SE | -5 | 5 | Greenwood Lake | 5.18 | Canton | 1.62 | | |
| New Mexico | Bitter Lakes WL Ref | 86 | 18 | Quemado Ranger Station | -7 | 2 | Queen Ranger Station | 2.21 | 3 Stations | .00 | | |
| New York | Dansville | 60 | 19 | 2 Stations | -34 | 26 | Tannersville 2 E | 5.77 | Norfolk | 1.19 | | |
| North Carolina | Shelby 2 NNE | 76 | 28 | Grandfather Mountain | -14 | 4 | Manleo 2 WNW | 7.72 | Bayboro | 1.98 | | |
| North Dakota | Hettinger | 52 | 23 | Upham 3 N | -42 | 3 | Selfridge | 1.05 | 6 Stations | T | | |
| Ohio | Ironton | 67 | 19+ | Jackson 2 NW | -13 | 4 | Ironton | 3.15 | Bowling Green Swg Pl | .63 | | |
| Oklahoma | Buffalo | 90 | 17 | Jay | 3 | 3 | Hugo | 6.73 | 8 Stations | .00 | | |
| Oregon | Bora 2 W | 77 | 26 | 2 Stations | 2 | 20+ | Valsetz | 12.26 | Sheaville | T | | |
| Pennsylvania | Farrell Sharon | 64 | 22 | Clermont 4 NW | -23 | 14 | Tobyhanna | 4.40 | Connellsville | .34 | | |
| Puerto Rico | San Sebastian, P.R. | 94 | 11 | 2 Stations, P.R. | 53 | 20+ | Pico Del Este, P.R. | 7.42 | Ponce 4 E, P.R. | .17 | | |
| Rhode Island | Greenville | 57 | 3 | North Scituate 4 S | 0 | 14+ | Woonsocket | 6.60 | Block Island WBAP | 3.63 | | |
| South Carolina | Sandhill Esp Sta | 78 | 20 | Caesars Head 1 NE | -2 | 4 | Santuck | 5.11 | Edgefield 1 ENE | 1.99 | | |
| South Dakota | Winner | 73 | 17 | Pollock | -30 | 3 | Lead 1 SE | 1.47 | Bridgewater | .00 | | |
| Tennessee | 3 Stations | 72 | 19+ | 2 Stations | -10 | 4 | Cougar 6 E | 5.68 | Chattanooga WBAP | 1.80 | | |
| Texas | Memphis | 89 | 18 | Littlefield No 2 | 10 | 3 | Bonham | 8.53 | 18 Stations | .00 | | |
| Utah | 2 Stations | 75 | 11+ | Soldier Creek | -19 | 19 | Alta | 5.51 | 5 Stations | .00 | | |
| Vermont | Dorset 1 S | 51 | 2 | Mount Mansfield | -24 | 26 | Searsburg Station | 5.16 | Gilman | 1.08 | | |
| Virginia | Chase City | 72 | 21 | Burkes Garden | -24 | 4 | Wallaceton Lk Drummond | 5.51 | Tangier Island | D .35 | | |
| Washington | Glenoma 1 W | 70 | 10 | 2 Stations | 4 | 6+ | Cougar 6 E | 11.94 | Wenatchee FAA AP | .23 | | |
| West Virginia | 2 Stations | 69 | 19 | Flat Top | -12 | 5+ | Gassaway | 6.42 | Moorefield | .81 | | |
| Wisconsin | 3 Stations | 50 | 24+ | Prentice 1 N | -38 | 14 | Shawano | .96 | 2 Stations | .00 | | |
| Wyoming | Yoder | 69 | 17 | Bondurant 3 NW | -25 | 19 | Foxpark | 1.40 | 7 Stations | .00 | | |

+ And also on an earlier date or dates.

NOTE: Dates in the above table apply to the period 24 hours prior to time of observation. In some cases the actual occurrence is on the calendar date preceding that shown. (See individual Climatological Data for times of observations).

D Water equivalent of snowfall wholly or partly estimated, using a ratio of 1 inch water equivalent to every 10 inches of snowfall.

CLIMATOLOGICAL DATA

ENGLISH UNITS

FEBRUARY 1970

| State and Station | Pressure | | Temperature | | | | | | Precipitation | | | | | Wind | | | | No. of days
(sunrise to sunset) | | Possible sunshine
(sunrise to sunset) | % | | | | | | | | | | | | | |
|-------------------|--------------|-----------|-----------------|-----------------|---------|-----------------------|---------|------|---------------|------|-------------|----------------------|----------------------|-------------------|---------------------------|-------|-----------------------|------------------------------------|------|--|----|----------------------|-------------|------|-----------------|---------------------|--------------|-----|-----|-----|-------|-------------------------|--------|--------|
| | Station
Q | Sea level | Average maximum | Average minimum | Average | Departure from normal | Highest | Date | Lowest | Date | No. of days | Max. 90° F. or above | Min. 32° F. or below | Average dew point | Average relative humidity | Total | Departure from normal | | | | | Greatest in 24 hours | Snow, Sleet | | Resultant speed | Resultant direction | Fastest mile | | | | | | | |
| | | | | | | | | | | | | | | | | | | In. | F. | | | | F. | F. | | | F. | F. | In. | In. | Total | Maximum depth on ground | M.p.h. | M.p.h. |
| ALABAMA | 620 | 998.6 | 1021.8 | | 57 | 32 | 44.5 | -4.2 | 70 | 18 | 11 | 4 | 0 | 16 | 29 | 58 | 2.35 | -2.93 | 0.89 | 9 | 0 | 0.1 | T | 2.1 | 30 | SE | 1 | 10 | 6 | 12 | 5.8 | 57 | | |
| | 624 | 998.3 | 1021.9 | | 52 | 29 | 40.6 | -4.5 | 69 | 18 | 17 | 4 | 0 | 19 | 31 | 71 | 2.75 | -2.47 | 0.94 | 11 | 0 | 0.0 | 0 | 1.7 | 28 | 29 | 35 | 25+ | 6 | 15 | 6.6 | 66 | | |
| | 211 | 1013.9 | 1022.0 | | 63 | 39 | 51.4 | -3.8 | 74 | 15 | 18 | 4 | 0 | 3 | 38 | 67 | 5.32 | 0.73 | 2.07 | 7 | 3 | 0.9 | 0 | 1.6 | 36 | 35 | 13 | 1 | 5 | 10 | 4.6 | | | |
| | 183 | 1014.6 | 1022.1 | | 60 | 34 | 46.8 | -3.5 | 71 | 15+ | 14 | 4 | 0 | 12 | 33 | 63 | 3.77 | -0.59 | 1.60 | 7 | 1 | 0.0 | 0 | 2.2 | 28 | 28 | SE | 1 | 12 | 4 | 12 | 5.1 | | |
| ALASKA | 114 | 1000.7 | 1005.6 | | 35 | 25 | 29.6 | 10.9 | 45 | 22 | 10 | 3 | 0 | 26 | 24 | 78 | 0.57 | -0.14 | 0.19 | 9 | 0 | 8.7 | 14 | 1.5 | 36 | 29 | 15 | 24 | 0 | 26 | 9.5 | 13 | | |
| | ANCHORAGE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | ANNETTE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | BARROW | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BARTER ISLAND | 31 | 1022.4 | 1022.9 | | -11 | -23 | -17.0 | 1.3 | 22 | 27 | -46 | 8 | 0 | 28 | -23 | 74 | 0.09 | -0.08 | 0.05 | 3 | 0 | 1.1 | 6 | 10.9 | 7 | 48 | 11 | 8 | 1 | 4 | 10 | 4.6 | | |
| | 39 | 1019.6 | 1021.8 | | -10 | -25 | -17.2 | 2.4 | 25 | 28 | -50 | 4 | 0 | 28 | -24 | 67 | 0.65 | 0.30 | 0.38 | 5 | 0 | 0.8 | 14 | 8.2 | 9 | 46 | 11 | 11 | 10 | 10 | 3.4 | | | |
| | 125 | 994.6 | 1000.5 | | 24 | 8 | 16.4 | 8.2 | 46 | 13 | -32 | 6 | 0 | 25 | 12 | 82 | 0.90 | -0.62 | 0.13 | 8 | 0 | 1.9 | 9 | 3.5 | 6 | 39 | 9 | 9 | 6 | 20 | 7.3 | | | |
| | BETHEL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BIG DELTA | 644 | 987.8 | 1014.6 | | 11 | -8 | 1.2 | | 33 | 24 | -28 | 9 | 0 | 28 | -12 | 56 | 0.92 | 0.04 | 0.33 | 9 | 0 | 0.1 | 12 | 4.0 | 36 | 25 | 20 | 24 | 3 | 5 | 19 | 7.4 | | |
| | 1268 | 989.2 | 992.6 | | 32 | 24 | 28.1 | 0.1 | 41 | 24 | -26 | 1 | 0 | 28 | 19 | 25 | 86 | 0.97 | 0.98 | 0.64 | 2 | 0 | 1.2 | 3 | 6.8 | 12 | 34 | 16 | 23 | 3 | 20 | 8.5 | | |
| | 96 | 989.2 | 1010.5 | | 18 | -2 | 8.0 | 10.9 | 43 | 24 | -26 | 4 | 0 | 28 | -4 | 57 | 0.32 | -0.20 | 0.14 | 6 | 0 | 8.6 | 12 | 3.4 | 1 | 30 | 24 | 25 | 3 | 5 | 20 | 7.9 | | |
| | FAIRBANKS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| GULKANA | 1572 | 950.6 | 1010.6 | | 28 | 9 | 18.6 | | 43 | 23 | -13 | 1 | 0 | 28 | 12 | 76 | 0.21 | 1.21 | 0.64 | 17 | 0 | 5.3 | 7 | 2.0 | 19 | 35 | 19 | 24 | 1 | 2 | 22 | 8.8 | | |
| | 67 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | HOMER | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | ILLIANA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| JUNEAU | 12 | 1013.5 | 1014.2 | | 33 | 22 | 27.2 | | 45 | 27 | -14 | 0 | 0 | 20 | 0 | 20 | 0.45 | 1.09 | 0.44 | 17 | 0 | 3.5 | 7 | 2.0 | 19 | 35 | 19 | 24 | 1 | 2 | 22 | 8.9 | | |
| | 186 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 49 | 996.8 | 998.8 | | 32 | 21 | 26.4 | 9.0 | 46 | 26 | -19 | 3 | 0 | 20 | 0 | 17 | 66 | 0.45 | 0.29 | 1.09 | 14 | 0 | 4.0 | 15 | 6.9 | 12 | 44 | 13 | 2 | 4 | 23 | 8.7 | 28 | |
| | KING SALMON | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| KOTZEBUE | 10 | 1009.8 | 1010.3 | | 11 | -3 | 3.9 | 7.9 | 32 | 13 | -41 | 8 | 0 | 28 | -3 | 70 | 0.10 | -0.12 | 0.08 | 7 | 0 | 4.6 | 8 | 9.2 | 9 | 41 | 9 | 18 | 8 | 3 | 17 | 6.7 | | |
| | 344 | 993.9 | 1007.1 | | 17 | -4 | 6.4 | 6.3 | 47 | 24 | -43 | 5 | 0 | 28 | -4 | 66 | 0.80 | -0.34 | 0.28 | 5 | 0 | 12.0 | 20 | 0.8 | 35 | 35 | 19 | 24 | 4 | 5 | 19 | 7.8 | | |
| | 13 | 1008.1 | 1008.8 | | 21 | 3 | 12.3 | 6.8 | 43 | 24 | -43 | 5 | 0 | 28 | 4 | 66 | 0.25 | -0.69 | 0.09 | 8 | 0 | 6.9 | 5 | 0.4 | 6 | 37 | 7 | 26 | 4 | 5 | 19 | 8.3 | | |
| | NOME | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ST. PAUL ISLAND | 122 | 990.5 | 991.5 | | 31 | 22 | 26.3 | 3.0 | 38 | 12 | -3 | 5 | 0 | 27 | 24 | 89 | 0.25 | -0.77 | 0.29 | 17 | 0 | 8.7 | 10 | 10.5 | 9 | 48 | 10 | 7 | 0 | 9 | 19 | 8.3 | | |
| | 122 | 984.8 | 986.4 | | 33 | 27 | 30.0 | -0.8 | 38 | 12 | -3 | 5 | 0 | 27 | 24 | 89 | 0.25 | -0.77 | 0.29 | 17 | 0 | 8.7 | 10 | 10.5 | 9 | 48 | 10 | 7 | 0 | 9 | 19 | 8.3 | | |
| | SHEMYA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | SUMMIT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TALKEETNA | 2401 | 918.7 | 1009.4 | | 26 | 10 | 18.2 | | 39 | 11 | -17 | 5 | 0 | 26 | 23 | 75 | 1.51 | -0.77 | 0.29 | 15 | 0 | 13.9 | 9 | 3.1 | 5 | 4 | 33 | 5 | 2 | 0 | 6 | 22 | 8.7 | |
| | 345 | 993.2 | 1008.7 | | 34 | 21 | 27.5 | 12.0 | 45 | 12 | 5 | 4 | 0 | 28 | 23 | 82 | 1.18 | -0.54 | 0.38 | 15 | 0 | 27.0 | 46 | 9.3 | 4 | 33 | 5 | 2 | 0 | 3 | 25 | 9.2 | | |
| | 15 | 1004.4 | 1005.1 | | 19 | 4 | 11.7 | | 40 | 24 | -35 | 7 | 0 | 28 | 0 | 59 | 0.08 | 0.04 | 0.3 | 3 | 0 | 10.7 | 18 | 3.1 | 2 | 25 | 4 | 2 | 0 | 3 | 25 | 9.2 | | |
| | UNAKLEET | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| YAKUTAT | 28 | 1009.5 | 1010.6 | | 39 | 28 | 33.5 | 4.9 | 44 | 22 | 19 | 17 | 0 | 22 | 31 | 89 | 10.90 | 2.70 | 2.07 | 21 | 0 | 9.4 | 9 | 5.1 | 12 | 46 | 13 | 2 | 0 | 5 | 23 | 9.0 | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ARIZONA | 7006 | 788.7 | 1020.1 | | 51 | 23 | 37.1 | 7.5 | 63 | 16 | 11 | 3 | 0 | 28 | 16 | 47 | 0.41 | -1.37 | 0.15 | 7 | 0 | 2.8 | 1 | 0.9 | 9 | 23 | 33 | 1 | 9 | 7 | 12 | 5.9 | | |
| | FLAGSTAFF | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1117 | 978.0 | 1017.1 | | 75 | 46 | 60.2 | 6.7 | 86 | 8 | 32 | 3 | 0 | 2 | 32 | 38 | 0.34 | -0.55 | 0.30 | 2 | 0 | 0.0 | 0 | 2.0 | 10 | 32 | ENE | 20 | 13 | 8 | 7 | 4.6 | 84 | |
| | PHOENIX | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

ENGLISH UNITS

FEB 27 1970

See footnotes at end of table

See footnotes at end of table

CLIMATOLOGICAL DATA

ENGLISH UNITS

FEBRUARY 1970

| State and Station | Pressure | | Temperature | | | | | | Precipitation | | | | | | Wind | | | | No. of days
(sunrise to
sunset) | | Sky
cover, tenths
(sunrise to sunset) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | Station
Q | Sea level | Average maximum | Average minimum | Average
from normal | Highest | Date | Lowest | Date | No. of
days | | Greatest in 24 hours | Departure from normal | Snow, Sleet | | Resultant speed | Resultant direction | Fastest mile | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | F. | ° | | | With thunderstorms | Total | | | Maximum depth
on ground | Speed | Direction | | Date | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Elevation (ground) | Ft. | Mb. | Mb. | F. | F. | F. | F. | F. | F. | F. | % | In. | In. | In. | In. | M.p.h. | M.p.h. | M.p.h. | M.p.h. | M.p.h. | M.p.h. | M.p.h. | M.p.h. | M.p.h. | M.p.h. | M.p.h. | M.p.h. | M.p.h. | M.p.h. | M.p.h. | M.p.h. | M.p.h. | M.p.h. | M.p.h. | M.p.h. | M.p.h. | M.p.h. | M.p.h. | M.p.h. | M.p.h. | M.p.h. | M.p.h. | M.p.h. | M.p.h. | M.p.h. | M.p.h. | M.p.h. | M.p.h. | M.p.h. | M.p.h. | M.p.h. | M.p.h. | M.p.h. | M.p.h. | M.p.h. | M.p.h. | M.p.h. | M.p.h. | M.p.h. | M.p.h. | M.p.h. | M.p.h. | M.p.h. | M.p.h. | M.p.h. | M.p.h. | M.p.h. | M.p.h. | M.p.h. | M.p.h. | M.p.h. | M.p.h. | M.p.h. | M.p.h. | M.p.h. | M.p.h. | M.p.h. | M.p.h. | M.p.h. | M.p.h. | M.p.h. | M.p.h. | M.p.h. | M.p.h. | M.p.h. | M.p.h. | M.p.h. | M.p.h. | M.p.h. | M.p.h. | M.p.h. | M.p.h. | M.p.h. | M.p.h. | M.p.h. | M.p.h. | M.p.h. | M.p.h. | M.p.h. | M.p.h. | M.p.h. | M.p.h. | M.p.h. | M.p.h. | M.p.h. | M.p.h. | M.p.h. | M.p.h. | M.p.h. | M.p.h. | M.p.h. | M.p.h. | M.p.h. | M.p.h. | 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CLIMATOLOGICAL DATA

ENGLISH UNITS

FEBRUARY 1976

| State and Station | Elevation (ground) | Pressure | | Temperature | | | | | | Precipitation | | | | Wind | | | | No. of days (sunrise to sunset) | | % | | | | | | | | | | | | | | |
|-------------------|---------------------|-------------------|-----------|-----------------|-----------------|---------|-----------------------|---------|--------|---------------|----------------------|-------------|-------------|-----------------|---------------------|-------|-----------|---------------------------------|---------------------|------|---------------------------|-------|-----------------------|--------------------|-------------------------|------|-----|----|----|----|-----|-----|-----|----|
| | | Station | Sea level | Average maximum | Average minimum | Average | Departure from normal | Date | | No. of days | Greatest in 24 hours | No. of days | Snow, Sleet | Resultant speed | Resultant direction | Speed | Direction | | | | | | | | | | | | | | | | | |
| | | | | | | | | Highest | Lowest | | | | | | | | | Max. 90 F. or above | Min. 32 F. or below | | Average relative humidity | Total | Departure from normal | With thunderstorms | Maximum depth on ground | | | | | | | | | |
| MINNESOTA | DULUTH | 1428 | 966.4 | 1018.9 | 20 | -3 | 8.4 | -2.4 | 41 | 21 | -32 | 3 | 0 | 28 | 1 | 67 | 0.43 | -0.53 | 0.20 | 8 | 0 | 8.9 | 22 | 6.7 | 28 | NW | 1 | 9 | 6 | 13 | 6.0 | 57 | | |
| | INTERNATIONAL FALLS | 1179 | 972.9 | 1018.8 | 18 | -9 | 4.5 | -2.6 | 44 | 21 | -37 | 3 | 0 | 28 | 3 | 65 | 0.43 | -0.28 | 0.13 | 9 | 0 | 4.5 | 25 | 4.6 | 29 | NW | 1 | 9 | 9 | 10 | 5.7 | 64 | | |
| | MINNEAPOLIS | 834 | 988.5 | 1020.7 | 26 | 5 | 15.4 | -0.3 | 40 | 21 | -21 | 3 | 0 | 28 | 8 | 70 | 0.16 | -0.62 | 0.07 | 5 | 0 | 4.3 | 17 | 4.8 | 29 | NW | 26+ | 9 | 6 | 13 | 5.9 | 64 | | |
| | ROCHESTER | 1297 | 970.2 | 1020.2 | 26 | 4 | 15.1 | -1.1 | 41 | 22 | -23 | 3 | 0 | 28 | 8 | 65 | 0.47 | -0.33 | 0.37 | 5 | 0 | 9.0 | 15 | 7.0 | 27 | 33 | 2 | 10 | 8 | 10 | 5.6 | 64 | | |
| | ST CLOUD | 1034 | 980.7 | 1020.0 | 24 | 0 | 12.1 | -1.3 | 40 | 22 | -25 | 3 | 0 | 28 | 6 | 65 | 0.18 | -0.62 | 0.08 | 6 | 0 | 2.8 | 11 | 7.0 | 27 | 33 | 2 | 10 | 8 | 10 | 5.5 | 64 | | |
| MISSISSIPPI | JACKSON | 310 | 1010.2 | 1022.4 | 60 | 33 | 46.3 | -4.2 | 73 | 18 | 11 | 4 | 0 | 15 | 36 | 70 | 2.63 | -2.33 | 1.24 | 6 | 2 | 0.0 | 0 | 0.8 | 31 | SW | 1 | 11 | 4 | 13 | 5.5 | 64 | | |
| | MERIDIAN | 290 | 1010.8 | 1022.3 | 61 | 32 | 46.4 | -4.2 | 72 | 18+ | 12 | 4 | 0 | 16 | 34 | 68 | 2.92 | -2.17 | 1.30 | 6 | 1 | 0.0 | 0 | 2.1 | 29 | 25 | 1 | 12 | 5 | 11 | 5.1 | 64 | | |
| | MISSOURI | COLUMBIA REGIONAL | 887 | 988.5 | 1021.8 | 42 | 22 | 32.0 | -1.8 | 64 | 17 | 5 | 3 | 0 | 24 | 22 | 69 | 0.31 | -1.50 | 0.17 | 6 | 0 | 3.0 | 3 | 3.0 | 29 | NW | 2 | 10 | 4 | 14 | 6.0 | 59 | |
| | | KANSAS CITY | 742 | 994.2 | 1022.0 | 48 | 25 | 36.7 | 0.9 | 72 | 17 | 5 | 3 | 0 | 21 | 21 | 59 | 0.46 | -0.78 | 0.33 | 4 | 0 | 2.2 | 2 | 1.7 | 30 | NW | 18 | 11 | 6 | 11 | 5.3 | 66 | |
| | | ST JOSEPH | 811 | 1007.7 | 1021.8 | 52 | 22 | 37.4 | -6.3 | 72 | 17 | 1 | 3 | 0 | 24 | 23 | 70 | 0.29 | -0.80 | 0.23 | 2 | 0 | 3.7 | 3 | 3.2 | 28 | NW | 2 | 9 | 7 | 4 | 5 | 60 | |
| ST LOUIS | | 535 | 1000.7 | 1021.8 | 44 | 22 | 33.0 | -1.7 | 68 | 18 | 1 | 3 | 0 | 24 | 23 | 70 | 0.64 | -1.40 | 0.23 | 8 | 0 | 0.1 | 1 | 1.7 | 27 | 30 | N | 2 | 10 | 3 | 15 | 6.0 | 54 | |
| SPRINGFIELD | | 1268 | 974.9 | 1021.7 | 46 | 24 | 34.7 | -2.4 | 69 | 17 | 3 | 3 | 0 | 21 | 25 | 73 | 0.67 | -1.45 | 0.27 | 8 | 0 | 0.1 | 1 | 1.7 | 27 | 30 | N | 2 | 10 | 3 | 15 | 6.0 | 54 | |
| MONTANA | BILLINGS | 3567 | 893.3 | 1020.7 | 44 | 22 | 33.0 | 7.3 | 58 | 10 | 5 | 1 | 0 | 25 | 15 | 50 | 1.10 | 0.50 | 0.40 | 8 | 0 | 11.3 | 7 | 4.8 | 27 | NW | 3 | 6 | 5 | 17 | 6.8 | 68 | | |
| | GLASGOW | 2284 | 937.0 | 1022.8 | 29 | 8 | 18.4 | 4.8 | 40 | 20+ | -14 | 2 | 0 | 28 | 12 | 77 | 0.05 | -0.36 | 0.03 | 3 | 0 | 0.6 | 2 | 2.5 | 35 | 40 | 32 | 3 | 7 | 4 | 16 | 6.7 | 68 | |
| | GREAT FALLS | 3662 | 890.3 | 1021.6 | 44 | 21 | 32.3 | 8.5 | 62 | 9 | -5 | 2 | 0 | 27 | 16 | 54 | 1.02 | 0.28 | 0.34 | 8 | 0 | 11.4 | 6 | 6.6 | 24 | 56 | SW | 3 | 7 | 14 | 6.6 | 59 | | |
| | HAVRE | 2584 | 926.5 | 1022.6 | 32 | 9 | 22.5 | 4.2 | 41 | 9 | -10 | 1 | 0 | 28 | 15 | 81 | 0.24 | -0.19 | 0.07 | 7 | 0 | 7.1 | 6 | 2.2 | 25 | 40 | NW | 3+ | 7 | 14 | 6.7 | 59 | | |
| | KALISPELL | 3828 | 885.5 | 1022.6 | 43 | 22 | 32.5 | 9.3 | 58 | 16 | 11 | 28 | 0 | 27 | 20 | 66 | 0.67 | 0.24 | 0.41 | 3 | 0 | 9.5 | 7 | 5.2 | 27 | 38 | NW | 1 | 6 | 14 | 6.6 | 68 | | |
| NEBRASKA | MILES CITY | 2629 | 916.0 | 1024.0 | 35 | 19 | 27.2 | 2.7 | 41 | 20 | 2 | 4 | 0 | 25 | 22 | 80 | 1.27 | 0.27 | 0.58 | 6 | 0 | 10.7 | 14 | 1.4 | 17 | 32 | 3 | 2 | 7 | 19 | 8.1 | 68 | | |
| | MISSOULA | 3190 | 908.9 | 1024.0 | 39 | 25 | 32.2 | 7.2 | 52 | 26 | 20 | 22+ | 0 | 28 | 20 | 77 | 1.06 | 0.69 | 1.1 | 0 | 0 | 10.7 | 2.5 | 30 | 42 | SW | 3 | 4 | 4 | 20 | 8.0 | 44 | | |
| | NEVADA | GRAND ISLAND | 1841 | 953.3 | 1021.5 | 46 | 18 | 31.9 | 5.8 | 71 | 17 | -2 | 3 | 0 | 28 | 17 | 60 | 0.24 | -0.50 | 0.20 | 4 | 0 | 3.2 | 3 | 3.6 | 31 | 39 | 32 | 26 | 8 | 12 | 8 | 5.7 | 72 |
| | | LINCOLN U | 1150 | 937.0 | 1021.6 | 45 | 21 | 33.2 | 4.5 | 66 | 17 | -2 | 3+ | 0 | 25 | 4 | 53 | 0.65 | -0.44 | 0.48 | 4 | 0 | 3.2 | 3 | 3.6 | 3 | 45 | N | 18 | 11 | 10 | 7 | 5.3 | 72 |
| | | NORFOLK | 1544 | 920.1 | 1021.0 | 48 | 16 | 28.5 | 5.6 | 68 | 17 | -5 | 3 | 0 | 28 | 18 | 64 | 0.35 | -0.43 | 0.24 | 3 | 0 | 3.6 | 3 | 3.6 | 3 | 32 | NW | 11 | 9 | 11 | 5.5 | 67 | |
| NORTH PLATTE | | 2775 | 985.1 | 1021.6 | 45 | 19 | 31.8 | 3.9 | 72 | 17 | -2 | 3 | 0 | 28 | 17 | 58 | 0.28 | -0.24 | 0.27 | 2 | 0 | 1.0 | 4 | 2.7 | 34 | NW | 12 | 10 | 11 | 7 | 5.1 | 73 | | |
| OMAHA | | 977 | 985.1 | 1021.6 | 45 | 19 | 32.0 | 5.5 | 72 | 17 | -2 | 3 | 0 | 28 | 17 | 58 | 0.14 | -0.81 | 0.07 | 3 | 0 | 4.1 | 1 | 3.3 | 34 | 47 | NW | 12 | 10 | 11 | 7 | 5.1 | 73 | |
| NEW HAMPSHIRE | SCOTTSTOWN | 3957 | 881.5 | 1020.9 | 46 | 20 | 33.0 | 4.0 | 64 | 17 | -8 | 2 | 0 | 26 | 18 | 58 | 0.18 | -0.22 | 0.15 | 4 | 0 | 2.0 | 1 | 5.6 | 32 | 41 | 27 | 17 | 5 | 11 | 11 | 6.2 | 57 | |
| | VALENTINE | 2587 | 881.5 | 1020.9 | 46 | 20 | 33.0 | 4.0 | 64 | 17 | -8 | 2 | 0 | 26 | 18 | 58 | 0.18 | -0.22 | 0.15 | 4 | 0 | 2.0 | 1 | 5.6 | 32 | 41 | 27 | 17 | 5 | 11 | 11 | 6.2 | 57 | |
| | CONCORD | 342 | 1003.4 | 1016.6 | 35 | 11 | 22.6 | -0.1 | 49 | 3 | -4 | 17 | 0 | 27 | 15 | 70 | 4.27 | 1.79 | 2.05 | 8 | 0 | 13.8 | 12 | 2.8 | 29 | 38 | NW | 23 | 6 | 7 | 15 | 6.6 | 54 | |
| | MT WASHINGTON OBS | 6262 | | | 15 | -6 | 4.9 | -0.7 | 36 | 3 | -30 | 23 | 0 | 28 | | | 22.29 | 17.08 | 10.38 | 18 | 0 | 95.7 | 45 | | | 123Y | SE | 11 | 2 | 3 | 23 | 8.7 | 23 | |
| | NEW JERSEY | ATLANTIC CITY | 64 | 1015.9 | 1018.2 | 43 | 25 | 33.8 | -0.9 | 60 | 25 | 8 | 5+ | 0 | 22 | 24 | 68 | 3.08 | -0.05 | 1.09 | 9 | 0 | 5.9 | 3 | 5.8 | 27 | 35 | 17 | 2 | 9 | 8 | 11 | 6.0 | 49 |
| ATLANTIC CITY U | | 11 | 1016.9 | 1017.9 | 43 | 25 | 36.7 | 1.0 | 59 | 25 | 15 | 26 | 0 | 17 | 24 | 66 | 3.39 | 0.01 | 1.60 | 10 | 0 | 5.5 | 4 | 5.2 | 28 | 37 | SSW | 2 | 9 | 12 | 6.1 | 52 | | |
| NEWARK | | 17 | 1016.9 | 1017.9 | 41 | 25 | 33.0 | -0.4 | 58 | 22 | 8 | 4 | 0 | 22 | 22 | 66 | 3.29 | 0.09 | 1.69 | 9 | 0 | 4.4 | 3 | 5.0 | 28 | 35 | 23 | 22 | 7 | 9 | 12 | 6.1 | 52 | |
| TRENTON U | | 56 | 1016.9 | 1017.9 | 41 | 25 | 33.0 | -0.4 | 58 | 22 | 8 | 4 | 0 | 22 | 22 | 66 | 3.29 | 0.09 | 1.69 | 9 | 0 | 4.4 | 3 | 5.0 | 28 | 35 | 23 | 22 | 7 | 9 | 12 | 6.1 | 52 | |
| TRENTON U | | 56 | 1016.9 | 1017.9 | 41 | 25 | 33.0 | -0.4 | 58 | 22 | 8 | 4 | 0 | 22 | 22 | 66 | 3.29 | 0.09 | 1.69 | 9 | 0 | 4.4 | 3 | 5.0 | 28 | 35 | 23 | 22 | 7 | 9 | 12 | 6.1 | 52 | |
| NEW MEXICO | ALBUQUERQUE | 5311 | 840.2 | 1019.6 | 56 | 30 | 42.8 | 2.9 | 70 | 17 | 18 | 3+ | 0 | 21 | 18 | 43 | 0.27 | -0.11 | 0.24 | 3 | 0 | 2.7 | 1 | 0.7 | 5 | 36 | E | 19 | 12 | 3 | 13 | 5.4 | 75 | |
| | CLAYTON | 4969 | | | 55 | 24 | 39.5 | 3.5 | 77 | 17 | 7 | 3 | 0 | 26 | | | 0.18 | -0.19 | 0.18 | 1 | 0 | 3.8 | 4 | | | | | | 10 | 9 | 5.8 | 76 | | |
| | ROSWELL | 3617 | | | 62 | 30 | 46.1 | 4.0 | 83 | 17 | 23 | 6 | 0 | 20 | | | 0.28 | -0.14 | 0.12 | 3 | 0 | 2.0 | 1 | | | 34 | NW | 1 | | | | | | |

See footnotes at end of table

CLIMATOLOGICAL DATA

ENGLISH UNITS

FEBRUARY 1970

| State and Station | Elevation (ground) | Pressure | | Temperature | | | | | | Precipitation | | | | Wind | | | | No. of days (sunrise to sunset) | | | Possible sunshine (sunrise to sunset) | | | | | | | | | | | |
|---------------------|--------------------|----------|-----------|-----------------|-----------------|---------|-----------------------|---------|------|---------------|------|---------------------|---------------------|-------|------|-----------------------|----------------------|---------------------------------|--------------------|-------------------------|---------------------------------------|-----------------|---------------------|--------------|-----------|------------|--------------------|--------------|-------------------|-----|---------------------------|----|
| | | Station | Sea level | Average maximum | Average minimum | Average | Departure from normal | Highest | Date | Lowest | Date | No. of days | | Total | In. | Departure from normal | Greatest in 24 hours | No. of days | Snow, Sleet | | | Resultant speed | Resultant direction | Fastest mile | | Clear, 0-3 | Partly cloudy, 4-7 | Cloudy, 8-10 | Sky cover, tenths | | | |
| | | | | | | | | | | | | Max. 90 F. or above | Min. 32 F. or below | | | | | | With thunderstorms | Maximum depth on ground | | | | Speed | Direction | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Average relative humidity | |
| NEW YORK | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ALBANY | 275 | 1006.4 | 1017.6 | 35 | 11 | 23.1 | - 0.6 | 47 | 24 | - 6 | 26 | 0 | 27 | 12 | 63 | 1.98 | - 0.22 | 0.72 | 12 | 0 | 7.4 | 14 | 4.1 | 26 | 34 | W | 23+ | 5 | 11 | 12 | 6.8 | 47 |
| BINGHAMTON | 1590 | 956.0 | 1016.8 | 33 | 17 | 25.0 | 1.2 | 49 | 22 | - 2 | 26 | 0 | 25 | 16 | 68 | 2.22 | 0.04 | 0.86 | 15 | 0 | 12.9 | 10 | 4.6 | 25 | 33 | S | 2 | 3 | 8 | 17 | 7.4 | 54 |
| SUFFALO | 705 | 990.5 | 1017.1 | 41 | 25 | 33.0 | - 0.4 | 48 | 18 | - 2 | 4 | 0 | 27 | 18 | 75 | 1.74 | - 0.98 | 0.42 | 14 | 0 | 21.9 | 7 | 7.6 | 26 | 34 | SE | 22 | 4 | 8 | 16 | 7.3 | 51 |
| NEW YORK U | 132 | 1013.9 | 1017.2 | 41 | 25 | 33.0 | - 0.4 | 57 | 22 | 9 | 26 | 0 | 21 | 64 | 4.52 | 1.68 | 2.63 | 7 | 0 | 6.4 | 3 | 3.4 | 29 | 34 | SE | 22 | 4 | 8 | 16 | 7.3 | 54 | |
| NEW YORK KENNEDY | 13 | 1017.3 | 1018.0 | 40 | 26 | 33.3 | 1.7 | 54 | 25+ | 13 | 26+ | 0 | 23 | 22 | 64 | 3.33 | 0.40 | 1.51 | 6 | 0 | 5.3 | 4 | 5.1 | 28 | 41 | 10 | 10 | 8 | 7 | 13 | 5.9 | 51 |
| NEW YORK LA GUARDIA | 11 | 1016.3 | 1018.1 | 40 | 26 | 32.7 | - 0.9 | 56 | 25+ | 12 | 26+ | 0 | 23 | 20 | 59 | 3.24 | 0.15 | 1.67 | 6 | 0 | 4.2 | 3 | 4.2 | 30 | 38 | 5 | 2 | 8 | 12 | 6.0 | 56 | |
| ROCHESTER | 547 | 995.9 | 1016.9 | 33 | 15 | 23.7 | - 1.2 | 51 | 18 | - 8 | 4 | 0 | 25 | 16 | 71 | 2.28 | - 0.25 | 0.83 | 13 | 0 | 27.7 | 11 | 6.3 | 26 | 31 | NW | 23 | 2 | 13 | 13 | 7.1 | 56 |
| SYRACUSE | 410 | 1001.4 | 1016.8 | 33 | 15 | 24.1 | - 0.2 | 51 | 18 | - 5 | 14+ | 0 | 25 | 14 | 66 | 1.84 | - 1.29 | 0.48 | 16 | 0 | 25.8 | 11 | 3.9 | 25 | 37 | S | 2 | 2 | 7 | 19 | 7.8 | 42 |
| NORTH CAROLINA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ASHEVILLE | 2140 | 941.1 | 1019.0 | 52 | 26 | 39.1 | 0.2 | 66 | 28 | 1 | 4 | 0 | 23 | 26 | 64 | 2.42 | - 1.61 | 0.89 | 7 | 2 | 1.1 | 1 | 4.3 | 34 | 35 | 17 | 2 | 10 | 5 | 13 | 5.7 | 76 |
| CAPE HATTERAS R | 7 | 1019.0 | 1019.5 | 53 | 35 | 44.2 | - 2.3 | 68 | 15 | 17 | 27 | 0 | 10 | 37 | 75 | 5.92 | 1.99 | 2.92 | 10 | 3 | 1.2 | 1 | 3.2 | 33 | 38 | N | 26 | 11 | 5 | 12 | 5.4 | 68 |
| CHARLOTTE | 736 | 991.5 | 1019.6 | 54 | 28 | 41.1 | - 3.1 | 70 | 19 | 12 | 4 | 0 | 21 | 26 | 58 | 3.66 | 0.11 | 1.75 | 7 | 0 | T | 0 | 2.2 | 27 | 26 | S | 2 | 9 | 7 | 12 | 5.5 | 73 |
| GREENSBORO | 897 | 987.1 | 1019.5 | 52 | 28 | 40.0 | - 1.0 | 67 | 19 | 8 | 4 | 0 | 21 | 25 | 60 | 3.25 | - 0.05 | 1.69 | 6 | 0 | T | 0 | 2.3 | 27 | 28 | SW | 2 | 9 | 7 | 12 | 5.8 | 63 |
| RALEIGH | 434 | 1003.1 | 1019.4 | 52 | 26 | 38.9 | - 4.1 | 68 | 19 | 8 | 4 | 0 | 25 | 24 | 60 | 3.47 | 0.24 | 1.71 | 7 | 1 | T | 0 | 2.8 | 29 | 31 | 35 | 25 | 11 | 3 | 14 | 5.2 | 74 |
| WILMINGTON | 28 | 1018.6 | 1020.0 | 57 | 34 | 45.5 | - 3.2 | 70 | 19+ | 22 | 5+ | 0 | 13 | 35 | 72 | 2.45 | - 0.97 | 1.42 | 9 | 1 | 0.2 | T | 2.7 | 28 | 32 | NW | 3 | 13 | 5 | 10 | 4.9 | 71 |
| NORTH DAKOTA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BISMARCK | 1647 | 959.0 | 1021.8 | 29 | 2 | 15.6 | 2.1 | 44 | 25+ | -28 | 3 | 0 | 28 | 10 | 74 | 0.34 | - 0.09 | 0.15 | 6 | 0 | 4.5 | 8 | 5.5 | 31 | 50 | NW | 4 | 8 | 1 | 5 | 6.4 | 55 |
| FARGO | 896 | 986.5 | 1021.3 | 22 | 0 | 10.9 | 0.2 | 38 | 21 | -26 | 2 | 0 | 28 | 5 | 76 | 0.20 | - 0.31 | 0.05 | 6 | 0 | 3.6 | 7 | 4.0 | 30 | 54 | N | 17 | 8 | 12 | 6.1 | 75 | |
| WILLISTON | 1899 | 949.9 | 1021.8 | 31 | 3 | 16.9 | 4.5 | 46 | 25 | -22 | 18 | 0 | 28 | 11 | 77 | 0.10 | - 0.58 | 0.03 | 6 | 0 | 1.0 | 4 | 5.4 | 31 | 56 | NW | 3 | 10 | 5 | 13 | 6.0 | 61 |
| OHIO | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| AKRON | 1208 | 972.6 | 1018.8 | 35 | 18 | 26.5 | - 2.2 | 56 | 22 | - 4 | 26+ | 0 | 25 | 16 | 67 | 1.84 | - 0.46 | 0.89 | 13 | 0 | 8.4 | 3 | 5.1 | 25 | 24 | 21 | 12 | 6 | 5 | 17 | 7.1 | 55 |
| CINCINNATI | 761 | 988.8 | 1019.2 | 40 | 23 | 31.4 | - 3.7 | 62 | 18 | - 2 | 4 | 0 | 25 | 17 | 67 | 1.66 | - 1.14 | 0.76 | 10 | 0 | 2.1 | 1 | 5.9 | 24 | 26 | W | 27 | 5 | 6 | 17 | 7.4 | 51 |
| CLEVELAND | 777 | 989.2 | 1020.2 | 38 | 19 | 28.5 | - 2.6 | 57 | 18 | - 2 | 4 | 0 | 24 | 20 | 70 | 1.53 | - 0.58 | 0.90 | 11 | 0 | 6.6 | 3 | 4.3 | 25 | 30 | NW | 25 | 5 | 8 | 17 | 7.5 | 46 |
| COLUMBUS | 812 | 989.2 | 1020.2 | 38 | 19 | 28.5 | - 2.6 | 57 | 18 | - 2 | 4 | 0 | 24 | 20 | 70 | 1.53 | - 0.58 | 0.90 | 11 | 0 | 6.6 | 3 | 4.3 | 25 | 30 | NW | 25 | 5 | 8 | 17 | 7.5 | 46 |
| DAYTON | 1002 | 982.4 | 1019.6 | 38 | 21 | 29.3 | - 1.6 | 56 | 18 | - 4 | 4 | 0 | 26 | 24 | 71 | 1.16 | - 1.16 | 0.64 | 10 | 0 | 6.4 | 2 | 4.8 | 26 | 34 | W | 22 | 4 | 9 | 16 | 7.2 | 51 |
| MANSFIELD | 1295 | 992.4 | 1019.6 | 36 | 19 | 27.6 | - 0.2 | 55 | 22 | - 4 | 4 | 0 | 24 | 18 | 68 | 0.93 | - 1.16 | 0.48 | 9 | 0 | 6.4 | 3 | 6.2 | 25 | 35 | 25 | 22 | 4 | 9 | 16 | 7.1 | 51 |
| TOLEDO | 669 | 993.6 | 1019.6 | 34 | 15 | 24.3 | - 3.0 | 53 | 22 | - 5 | 4 | 0 | 27 | 15 | 68 | 0.89 | - 0.99 | 0.46 | 9 | 0 | 7.7 | 3 | 5.6 | 26 | 32 | W | 25 | 5 | 11 | 12 | 6.6 | 56 |
| YOUNGSTOWN | 1178 | 974.3 | 1018.8 | 33 | 16 | 24.5 | - 3.1 | 51 | 22 | - 6 | 4 | 0 | 27 | 17 | 73 | 1.93 | - 0.57 | 0.84 | 14 | 0 | 13.4 | 6 | 4.7 | 26 | 27 | 32 | 19 | 7 | 4 | 17 | 7.1 | 56 |
| OKLAHOMA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| OKLAHOMA CITY | 1285 | 973.9 | 1021.3 | 55 | 30 | 42.7 | 1.4 | 78 | 17 | 13 | 3 | 0 | 18 | 29 | 63 | 0.29 | - 1.08 | 0.14 | 4 | 0 | T | 0 | 0.2 | 34 | 37 | N | 2 | 10 | 5 | 13 | 5.9 | 65 |
| TULSA | 650 | 997.0 | 1021.9 | 53 | 31 | 41.9 | 1.3 | 74 | 17+ | 12 | 3 | 0 | 17 | 29 | 65 | 0.57 | - 1.20 | 0.34 | 6 | 0 | T | 0 | 0.6 | 25 | 31 | S | 18+ | 11 | 6 | 11 | 5.1 | 62 |
| OREGON | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ASTORIA | 8 | 1018.3 | 1019.0 | 55 | 37 | 46.3 | 3.5 | 64 | 24 | 29 | 27+ | 0 | 6 | 39 | 78 | 5.29 | - 4.60 | 2.85 | 14 | 0 | 0.0 | 0 | 3.0 | 9 | 29 | 17 | 15 | 9 | 4 | 15 | 6.6 | 66 |
| BURNS U | 4151 | 876.4 | 1022.1 | 49 | 25 | 36.9 | 7.2 | 61 | 27 | 18 | 19+ | 0 | 27 | 26 | 70 | 0.72 | - 0.55 | 0.45 | 4 | 0 | 0.1 | 2 | 1.6 | 32 | 24 | 35 | 28 | 3 | 6 | 13 | 6.1 | 61 |
| EUGENE | 359 | 1006.1 | 1019.8 | 55 | 34 | 44.5 | 1.9 | 65 | 27 | 28 | 24+ | 0 | 11 | 39 | 87 | 3.37 | - 1.60 | 1.46 | 10 | 0 | T | 12 | 1.2 | 21 | 24 | 35 | 28 | 3 | 6 | 13 | 7.8 | 48 |
| MEACHAM | 4050 | 879.4 | 1022.0 | 42 | 29 | 35.2 | 6.1 | 51 | 26+ | 22 | 28+ | 0 | 22 | 39 | 87 | 2.36 | - 1.64 | 0.85 | 10 | 0 | 19.2 | 12 | 1.2 | 21 | 24 | 35 | 28 | 3 | 6 | 13 | 6.1 | 61 |
| MEDFORD | 1298 | 972.2 | 1020.8 | 56 | 32 | 44.0 | 3.9 | 66 | 26 | 25 | 23+ | 0 | 17 | 35 | 80 | 1.47 | - 0.70 | 1.15 | 7 | 1 | 1.5 | 1 | 1.0 | 15 | 32 | 14 | 12 | 5 | 0 | 23 | 8.0 | 62 |
| PENDLETON | 1482 | 968.2 | 1023.0 | 46 | 33 | 39.5 | 2.1 | 57 | 16 | 27 | 27+ | 0 | 13 | 33 | 80 | 1.48 | - 0.30 | 0.61 | 9 | 0 | 3.8 | 3 | 2.2 | 25 | 32 | 28 | 1 | 5 | 0 | 25 | 7.5 | 58 |
| PORTLAND | 21 | 1019.0 | 1020.4 | 55 | 37 | 46.0 | 4.0 | 64 | 25 | 31 | 4 | 0 | 7 | 37 | 73 | 4.47 | - 0.85 | 1.95 | 11 | 1 | T | 0 | 4.9 | 12 | 32 | E | 20 | 7 | 6 | 16 | 6.9 | 58 |
| SALEM | 196 | 1012.5 | 1019.9 | 56 | 34 | 44.9 | 3.0 | 66 | 24 | 25 | 20 | 0 | 12 | 37 | 76 | 4.76 | - 0.85 | 2.27 | 10 | 0 | 0.0 | 0 | 1.0 | 20 | 25 | 18 | 15 | 5 | 7 | 16 | 6.9 | 58 |
| SEXTON SUMMIT R | 3836 | 884.9 | 1018.7 | 49 | 36 | 42.5 | 6.4 | 62 | 9 | 27 | 28+ | 0 | 12 | 37 | 76 | 2.88 | - 1.24 | 1.35 | 7 | 0 | 9.8 | 6 | 1.0 | 20 | 25 | 18 | 15 | 5 | 7 | 16 | 6.9 | 58 |
| PACIFIC AREA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| GUAM TAGUAC R | 361 | 999.0 | 1011.7 | 84 | 71 | 77.7 | - 0.6 | 87 | 19 | 67 | 18+ | 0 | 0 | 72 | 82 | 3.60 | 0.11 | 1.14 | 17 | 0 | 0.0 | 0 | 11.0 | 8 | 27 | E | 13 | 1 | 7 | 20 | 8.3 | 54 |
| JOHNSTON | 7 | 1013.9 | 1014.4 | 83 | 73 | 77.9 | 0.9 | 87 | 13 | 69 | 21 | 0 | 0 | 68 | 73 | 1.04 | - 0.49 | 0.29 | 13 | 0 | 0.0</ | | | | | | | | | | | |

ENGLISH UNITS

FEBRUARY 1973

See footnotes at end of table

CLIMATOLOGICAL DATA

ENGLISH UNITS

FEBRUARY 1970

| State and Station | Elevation (ground) | Pressure | | Temperature | | | | | | | Precipitation | | | | Wind | | | | No. of days (sunrise to sunset) | | Possible sunshine | % | | | | | | | | | | | | | | | |
|-------------------|--------------------|-----------|-----------|-----------------|-----------------|---------|-----------------------|------|---------|---------|---------------|-----|------|----|---------------------|---------------------|---------------------------|-------|---------------------------------|----------------------|-------------------|------|-------------|------|-------------|-----------------|---------------------|--------------|------|------------|--------------------|--------------|---------------------------------------|------|-------|-----------|------|
| | | Station Q | Sea level | Average maximum | Average minimum | Average | Departure from normal | | Highest | | Lowest | | Date | | No. of days | | Average relative humidity | Total | Departure from normal | Greatest in 24 hours | | | No. of days | | Snow, Sleet | Resultant speed | Resultant direction | Fastest mile | | Clear, 0-3 | Partly cloudy, 4-7 | Cloudy, 8-10 | Sky cover, tenths (sunrise to sunset) | | | | |
| | | | | | | | F. | ° | F. | ° | F. | ° | F. | ° | Max. 90 F. or above | Min. 32 F. or below | | | | | | | In. | Mph. | | | | In. | Mph. | | | | | Mph. | Speed | Direction | Date |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| VERMONT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BURLINGTON | 332 | 1003.7 | 1016.7 | | 28 | 6 | 16.9 | -0.5 | 44 | 11+ -19 | 26 | 0 | 27 | 7 | 63 | 0.63 | 1.95 | 0.16 | 1.9 | 21 | 36 | SW | 18 | 3 | 10 | 15 | 7.4 | 65 | | | | | | | | | |
| VIRGINIA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LYNCHBURG | 916 | 1018.3 | 1019.2 | | 47 | 25 | 36.3 | -2.6 | 63 | 2 | 5 | 4 | 0 | 25 | 68 | 0.77 | 2.39 | -0.26 | 1 | 1.6 | 29 | SW | 2 | 8 | 5 | 15 | 6.1 | 54 | | | | | | | | | |
| NORFOLK | 124 | 1013.2 | 1019.3 | | 49 | 30 | 39.3 | -2.3 | 66 | 19+ | 15 | 5+ | 0 | 17 | 29 | 68 | 3.97 | 0.76 | 1.87 | 8 | 0 | 2.8 | 3 | 13 | 3 | 12 | 5.4 | 69 | | | | | | | | | |
| PICHPOND | 166 | 1013.2 | 1019.3 | | 50 | 24 | 37.1 | -2.8 | 66 | 19 | 8 | 4 | 0 | 25 | 24 | 62 | 2.37 | -0.53 | 0.80 | 7 | 0 | 0.4 | 1 | 2.0 | 28 | 29 | 12 | 5.6 | 60 | | | | | | | | |
| ROANOKE | 1149 | 976.0 | 1018.9 | | 48 | 26 | 36.9 | -2.3 | 64 | 2 | 1 | 4 | 0 | 24 | 21 | 56 | 2.36 | -0.50 | 0.79 | 8 | 0 | 5.4 | 3 | 6 | 9 | 13 | 6.4 | | | | | | | | | | |
| WALLOPS ISLAND | 9 | | | | 44 | 29 | 36.2 | | 64 | 19 | 14 | 4 | 0 | 19 | | | 4.18 | | 1.80 | 2 | | 507 | NNW | 3 | | | | | | | | | | | | | |
| WASHINGTON | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| OLYMPIA | 125 | 1012.5 | 1019.9 | | 53 | 32 | 42.7 | 1.8 | 63 | 21 | 24 | 0 | 18 | 34 | 77 | 2.26 | 4.30 | -2.32 | 11 | 0 | 0.0 | 0 | 1.2 | 19 | 25 | 24 | 1 | 7 | 17 | 7.1 | 53 | | | | | | |
| QUILLAYUTE | 179 | 1011.5 | 1018.9 | | 55 | 37 | 45.6 | 5.2 | 65 | 10 | 28 | 0 | 7 | 38 | 79 | 5.09 | 5.09 | -7.19 | 1.93 | 15 | 0 | 0.0 | 0 | 2.7 | 8 | 28 | NE | 28 | 5 | 18 | 7.1 | 53 | | | | | |
| SEATTLE TACOMA | 400 | 1003.1 | 1019.8 | | 53 | 41 | 47.0 | 6.2 | 65 | 8+ | 33 | 5 | 0 | 0 | 38 | 74 | 2.26 | -1.98 | 0.99 | 8 | 0 | 0.0 | 0 | 1.4 | 9 | 26 | SW | 2 | 6 | 14 | 6.6 | 60 | | | | | |
| SPOKANE | 2356 | 936.0 | 1021.8 | | 43 | 30 | 36.3 | 6.3 | 52 | 25 | 25 | 25+ | 0 | 22 | 29 | 78 | 1.83 | -0.03 | 0.81 | 8 | 0 | 2.8 | 1 | 1.8 | 15 | 31 | SW | 17 | 5 | 8 | 15 | 6.7 | 51 | | | | |
| STAMPEDE PASS R | 3958 | 881.1 | | | 35 | 28 | 31.6 | 5.0 | 47 | 26+ | 20 | 28 | 0 | 27 | | | 6.63 | -3.52 | 1.86 | 16 | 65.4 | 167 | 3 | | | | | | | | | | | | | | |
| WALLA WALLA U | 949 | | | | 48 | 36 | 42.0 | 3.6 | 63 | 16 | 29 | 25 | 0 | 3 | 28 | 67 | 2.56 | 1.04 | 1.38 | 7 | 3.5 | 3 | 17 | 3 | 4 | 21 | 7.3 | 29 | | | | | | | | | |
| YAKIMA | 1052 | 963.4 | 1022.9 | | 49 | 31 | 40.0 | 6.0 | 57 | 25+ | 24 | 4 | 0 | 19 | 28 | 67 | 0.49 | -0.38 | 0.31 | 3 | 0 | 0.5 | 1 | 3.1 | 29 | 32 | 30 | 3 | 7 | 6 | 15 | 6.7 | | | | | |
| WEST INDIES | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SAN JUAN P.R. | 13 | 1014.9 | 1017.3 | | 82 | 71 | 76.2 | 1.8 | 87 | 10 | 66 | 8+ | 0 | 0 | 66 | 72 | 1.33 | -1.57 | 0.36 | 13 | 0 | 0.0 | 0 | 6.3 | 10 | 26 | E | 3 | 6 | 15 | 7 | 5.5 | 69 | | | | |
| SWAN ISLAND | 28 | | | | 81 | 73 | 77.2 | -1.2 | 84 | 17 | 68 | 4 | 0 | 0 | | | 2.71 | 1.55 | 0.99 | 12 | | 0.0 | 0 | | | | | | | | | | | | | | |
| WEST VIRGINIA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BECKLEY | 2504 | 928.2 | 1020.0 | | 41 | 22 | 31.3 | -3.0 | 63 | 18 | -10 | 4 | 0 | 26 | 73 | | 2.99 | -1.07 | 1.46 | 15 | 0 | 12.6 | 6 | 6.0 | 26 | 27 | 27+ | 4 | 5 | 19 | 7.8 | | | | | | |
| CHARLESTON | 939 | 984.8 | 1019.7 | | 46 | 27 | 36.2 | -1.3 | 65 | 18 | -1 | 4 | 0 | 23 | 62 | | 3.51 | -0.02 | 1.61 | 15 | 0 | 14.2 | 5 | 4.9 | 25 | 29 | 24 | 27 | 3 | 8 | 17 | 7.9 | | | | | |
| ELKINS | 1992 | 945.8 | | | 40 | 19 | 29.5 | -3.5 | 65 | 18 | -11 | 26 | 0 | 27 | | | 1.92 | -1.35 | 0.97 | 15 | 0 | 13.8 | 7 | 3.8 | 24 | 27 | 27 | 3 | 7 | 18 | 7.9 | | | | | | |
| HUNTINGTON | 827 | 988.8 | 1020.0 | | 43 | 25 | 33.9 | -3.8 | 67 | 18 | -6 | 4 | 0 | 22 | 70 | | 3.25 | 0.21 | 1.40 | 15 | 0 | 7.9 | 5 | 3.8 | 24 | 25 | 24 | 3 | 6 | 19 | 7.8 | | | | | | |
| PARKERSBURG U | 615 | | | | 42 | 24 | 32.8 | -2.7 | 63 | 18 | -3 | 4 | 0 | 23 | | | 1.53 | -1.30 | 0.45 | 11 | | 4.8 | 3 | | | | | | | | | | | | | | |
| WISCONSIN | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| GREEN BAY | 682 | 991.9 | 1018.8 | | 26 | 5 | 15.5 | -2.6 | 43 | 22 | -18 | 3 | 0 | 28 | 6 | 66 | 0.23 | -0.85 | 0.10 | 5 | 0 | 2.9 | - | 6.7 | 27 | 32 | NW | 25 | 11 | 6 | 11 | 5.4 | 59 | | | | |
| LA CROSSE | 651 | 994.6 | 1020.4 | | 31 | 11 | 20.7 | 1.3 | 45 | 21 | -17 | 3 | 0 | 27 | 13 | 72 | 0.33 | -0.72 | 0.30 | 28 | 4 | 3.2 | 0 | 3.0 | 28 | | | | | | | | | | | | |
| MADISON | 858 | 986.5 | 1019.4 | | 31 | 10 | 20.1 | 0.6 | 47 | 24+ | -15 | 3 | 0 | 28 | 12 | 68 | 0.16 | -0.97 | 0.08 | 4 | 0 | 1.7 | 5 | 4.6 | 28 | 35 | W | 4 | 12 | 3 | 13 | 5.5 | 58 | | | | |
| MILWAUKEE | 672 | 992.9 | 1019.1 | | 31 | 15 | 22.6 | 0.2 | 46 | 24 | -10 | 3 | 0 | 27 | 12 | 64 | 0.13 | -1.27 | 0.05 | 4 | 0 | 2.0 | 1 | 8.0 | 27 | 37 | SW | 4 | 9 | 7 | 12 | 5.6 | 61 | | | | |
| WYOMING | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CASPER | 5338 | 838.1 | 1020.1 | | 46 | 20 | 32.7 | 6.4 | 56 | 12+ | 1 | 4 | 0 | 27 | 19 | 63 | 0.27 | -0.32 | 0.12 | 5 | 0 | 4.8 | 3 | 7.8 | 26 | 38 | 23 | 3 | 9 | 7 | 12 | 6.0 | | | | | |
| CHEYENNE | 6126 | 811.7 | 1019.3 | | 48 | 21 | 36.6 | 7.3 | 60 | 17 | 11 | 1 | 0 | 28 | 13 | 46 | 0.04 | -0.52 | 0.04 | 1 | 0 | 1.5 | 2 | 10.3 | 29 | 53 | W | 1 | 11 | 8 | 9 | 5.3 | 71 | | | | |
| LANDER | 5563 | 830.0 | 1019.8 | | 48 | 20 | 33.6 | 9.3 | 61 | 10 | 9 | 5 | 0 | 28 | 13 | 46 | 0.71 | -0.69 | 0.33 | 9 | 0 | 1.1 | 3 | 2.2 | 27 | 40 | NW | 3 | 8 | 9 | 11 | 5.7 | 83 | | | | |
| SHERIDAN | 3964 | 880.5 | 1021.5 | | 43 | 19 | 31.1 | 7.3 | 56 | 17 | 3 | 2 | 0 | 28 | 21 | 69 | 0.71 | -0.69 | 0.33 | 9 | 0 | 10.1 | 8 | 4.1 | 32 | 47 | NW | 3 | 7 | 14 | 6.3 | 65 | | | | | |

Data from airport unless otherwise specified. U indicates Urban, R indicates Rural, sites.

Precipitation data in column headed "Greatest in 24 hours" are computed on a 24-hour basis without regard to calendar day - data may include precipitation with a measurable amount from the last day of the previous month or the first day of the following month.

Wind directions under resultant direction are in tens of degrees.

Value entered in column "Fastest Mile" is the highest observed 1-minute wind speed when the direction is in tens of degrees. These stations are not equipped with a recording anemometer from which "Fastest Mile" data can be evaluated.

B Number of days maximum 70° F. or above for Alaskan Stations.

Y Peak Gust.

+ And also on an earlier date or dates.

Ø Station pressures apply to elevations shown in the "Elevations - Station Pressure" table of the annual issue of this publication.

CLIMATOLOGICAL DATA

METRIC UNITS

FEBRUARY 1970

| State and Station | Elevation (ground) | Pressure | | Temperature | | | | Precipitation | | | | Wind | | | | No. of days
sunrise to sunset | Possible sunshine | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------|--------------------|----------|-----------|-----------------|---|-----------------|-----------------------|---------------|------|--------|------|-----------------------|--------------------|-------------|----------------------|----------------------------------|-------------------|--------------------|------|-------|-------|----------------------------|-----------------|---------------------|-------|-----------|------|-----------|-------------------|-------------|----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Station | Sea level | Average maximum | | Average minimum | Departure from normal | Highest | Date | Lowest | Date | Max. 32.2 °C or above | Min. 0 °C or lower | No. of days | Greatest in 24 hours | | | With thunderstorms | Snow | Sheet | Total | Maximum depth
on ground | Resultant speed | Resultant direction | Speed | Direction | Date | Clear 0-3 | Partly cloudy 4-7 | Cloudy 8-10 | Sky cover to sunsets | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| ALABAMA | Mb | Mb | | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C |

See footnotes at end of table

CLIMATOLOGICAL DATA

METRIC UNITS

FEBRUARY 1970

| State and Station | Pressure | | Temperature | | | | | Precipitation | | | | | Wind | | | No. of days (sunrise to sunset) | | Possible sunshine | | | | | | | | | | | | | | |
|---------------------|--------------------|---------|-------------|---------|---------|-----------------------|---------|---------------|-------|----------------------|--------------------|-------------------|---------------------------|-------|-----------------------|---------------------------------|--------------------|-------------------|-------------|-------------------------|-----------------|---------------------|-------|-----------|------|------------|--------------------|--------------|---------------------------------------|----------------|-----|----|
| | Elevation (ground) | Station | Sea level | Average | | Departure from normal | Highest | Lowest | Date | No. of days | | Average dew point | Average relative humidity | Total | Departure from normal | Greatest in 24 hours | No. of days | | Snow, Sleet | Maximum depth on ground | Resultant speed | Resultant direction | Speed | Direction | Date | Clear, 0-3 | Partly cloudy, 4-7 | Cloudy, 8-10 | Sky cover, tenths (sunrise to sunset) | | | |
| | | | | maximum | minimum | | | | | Max 32.2 °C or above | Min. 0 °C or lower | | | | | | With thunderstorms | | | | | | | | | | | | | 25 mm. or more | | |
| COLORADO | M. | Mb. | Mb. | C. | C. | C. | C. | C. | | | | | | | | | | | | | | | | | | | | | | | | |
| ALAMOSA | 2297 | 772.4 | 8.3 | -12.2 | -1.9 | 2.8 | 14.4 | 17 | -17.2 | 3 | 0 | 28 | -10.0 | 46 | 4 | -4 | 1 | 2 | 25 | 25 | | | 15.6 | 30 | 184 | 9 | 12 | 7 | 5.2 | | | |
| COLORADO SPRINGS | 1873 | 811.7 | 1020.4 | 11.1 | -5.0 | 2.9 | 3.2 | 20.0 | 174 | -11.7 | 2 | 0 | 27 | -10.0 | 46 | -4 | 3 | 3 | 61 | 51 | | | 15.6 | 30 | 184 | 9 | 6 | 13 | 6.0 | | | |
| DENVER | 1610 | 837.5 | 1018.6 | 13.3 | -5.6 | 3.7 | 3.9 | 22.2 | 17 | -12.2 | 0 | 0 | 27 | -8.9 | 48 | 1 | 1 | 0 | 8 | 8 | | | 17.9 | NW | 3 | 10 | 5 | 13 | 5.8 | | | |
| GRAND JUNCTION | 1476 | 855.4 | 1021.5 | 12.8 | -2.8 | 4.9 | 4.6 | 17.8 | 124 | -7.8 | 184 | 0 | 24 | -8.3 | 42 | -16 | 1 | 1 | 0 | 0 | | | 11 | 13.9 | NW | 17 | 8 | 12 | 6 | 4.9 | | |
| PUEBLO | 1428 | 857.1 | 1018.8 | 15.0 | -4.4 | 5.4 | 4.4 | 25.0 | 17 | -11.1 | 1 | 0 | 26 | -7.2 | 44 | -12 | 1 | 0 | 1 | 254 | | | 13.9 | NW | 184 | 12 | 2 | 14 | 5.3 | | | |
| CONNECTICUT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BRIDGEPORT | 2 | 1017.3 | 1017.9 | 4.4 | -5.0 | -0.3 | 0.6 | 11.7 | 25 | -13.9 | 26 | 0 | 27 | -6.1 | 65 | 114 | 38 | 50 | 8 | 160 | 76 | 2.5 | 29 | 17.9 | 26 | 224 | 9 | 8 | 11 | 5.9 | | |
| HARTFORD | 52 | 1010.2 | 1017.1 | 3.3 | -7.8 | -2.1 | 0.6 | 11.7 | 25 | -16.1 | 54 | 0 | 27 | -8.9 | 63 | 131 | 56 | 55 | 10 | 170 | 152 | 1.6 | 28 | 16.1 | NW | 23 | 6 | 9 | 13 | 6.3 | | |
| DELAWARE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| WILMINGTON | 23 | 1015.6 | 1018.5 | 6.1 | -4.4 | 0.8 | 0.2 | 14.4 | 2 | -13.3 | 26 | 0 | 25 | -5.6 | 65 | 54 | -21 | 21 | 6 | 38 | 91 | 1.7 | 27 | 13.4 | 30 | 44 | 8 | 7 | 13 | 6.2 | | |
| DIST. OF COLUMBIA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| WASHINGTON DULLES | 88 | 1007.1 | 1019.1 | 6.7 | -5.6 | 0.4 | | 17.2 | 2 | -13.9 | 264 | 0 | 24 | -5.6 | 68 | 70 | 41 | 7 | 0 | 91 | 102 | 1.1 | 30 | 13.9 | 17 | 2 | 7 | 8 | 13 | 6.4 | | |
| WASHINGTON NATIONAL | 3 | 1017.3 | 1019.5 | 8.3 | -2.8 | 2.8 | 0.4 | 17.2 | 22 | -11.7 | 4 | 0 | 24 | -5.6 | 58 | 68 | 6 | 24 | 8 | 91 | 76 | 1.6 | 30 | 15.6 | NW | 194 | 8 | 8 | 12 | 6.1 | | |
| FLORIDA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| APALACHICOLA U | 4 | 1020.3 | 1021.6 | 15.6 | 6.7 | 11.2 | -2.6 | 21.1 | 254 | -4.4 | 4 | 0 | 2 | 7.2 | 69 | 67 | -33 | 41 | 5 | 0 | 0 | 16.1 | SE | 1 | 12 | 6 | 10 | 5.0 | 72 | | | |
| DAYTONA BEACH | 9 | 1020.3 | 1021.6 | 18.9 | 7.8 | 13.4 | -2.8 | 26.7 | 15 | -1.7 | 4 | 0 | 1 | 9.4 | 71 | 96 | 26 | 75 | 8 | 0 | 0 | 1.3 | 31 | 11.6 | 14 | 24 | 4 | 15 | 6.3 | | | |
| FORT MYERS | 5 | 1020.7 | 1021.2 | 21.1 | 10.6 | 15.7 | -2.8 | 26.7 | 164 | 3.3 | 4 | 0 | 0 | 9.4 | 71 | 56 | 26 | 75 | 8 | 0 | 0 | 1.0 | 3 | 11.2 | 13 | 1 | 11 | 7 | 10 | 5.3 | | |
| JACKSONVILLE | 7 | 1020.7 | 1021.5 | 17.8 | 5.6 | 11.6 | -2.6 | 24.4 | 15 | -5.0 | 4 | 0 | 6 | 5.6 | 71 | 225 | 151 | 158 | 7 | 0 | 0 | 1.1 | 27 | 19.7 | SE | 1 | 11 | 5 | 12 | 5.2 | | |
| KEY WEST | 1 | 1019.6 | 1020.2 | 22.2 | 16.7 | 19.4 | -1.9 | 26.1 | 2 | 10.6 | 4 | 0 | 0 | 13.9 | 72 | 23 | 3 | 26 | 6 | 0 | 0 | 3.1 | 4 | 17.0 | NW | 3 | 8 | 12 | 5.7 | 71 | | |
| LAKE LAND U | 65 | | | 20.0 | 8.9 | 14.4 | -2.9 | 27.2 | 15 | -2.2 | 4 | 0 | 1 | 13.9 | 72 | 63 | -1 | 31 | 7 | 0 | 0 | 0 | 3 | 15.6 | 32 | 3 | 10 | 4 | 4.8 | 66 | | |
| MIAMI | 2 | 1020.0 | 1020.3 | 22.2 | 13.9 | 18.2 | -1.8 | 27.2 | 25 | 5.6 | 4 | 0 | 0 | 12.2 | 69 | 45 | -3 | 24 | 7 | 0 | 0 | 0.8 | 3 | 15.6 | 32 | 3 | 7 | 17 | 6.7 | 65 | | |
| ORLANDO | 33 | 1017.3 | 1021.5 | 20.6 | 8.9 | 14.8 | -1.8 | 27.2 | 15 | -2.2 | 4 | 0 | 1 | 8.9 | 73 | 172 | 110 | 124 | 9 | 0 | 0 | 0 | 1.1 | 34 | 12.1 | 34 | 264 | 11 | 4 | 13 | 5.6 | |
| PENSACOLA | 34 | 1017.6 | 1021.7 | 16.7 | 5.0 | 10.7 | -2.7 | 23.3 | 19 | -7.2 | 4 | 0 | 4 | 3.3 | 64 | 127 | 19 | 48 | 10 | 0 | 0 | 0.1 | 28 | 13.4 | 30 | 3 | 13 | 2 | 13 | 5.0 | 71 | |
| TALLAHASSEE | 17 | 1019.6 | 1021.8 | 18.3 | 1.1 | 9.8 | -3.3 | 25.0 | 19 | -7.2 | 5 | 0 | 14 | 22 | 65 | 117 | 31 | 59 | 6 | 0 | 0 | 0.7 | 33 | 13.0 | 17 | 1 | 9 | 9 | 10 | 5.1 | 58 | |
| TAMPA | 6 | 1020.7 | 1021.0 | 20.6 | 7.8 | 14.2 | -2.8 | 27.2 | 15 | 0.0 | 4 | 0 | 1 | 7.8 | 70 | 132 | 30 | 56 | 6 | 0 | 0 | 1.0 | 36 | 11.6 | 30 | 3 | 9 | 8 | 11 | 5.5 | 58 | |
| WEST PALM BEACH | 5 | 1019.6 | 1020.4 | 21.7 | 11.7 | 16.7 | -3.1 | 27.8 | 16 | 2.8 | 4 | 0 | 0 | 11.1 | 70 | 76 | 16 | 36 | 8 | 0 | 0 | 0.5 | 1 | 17.9 | 18 | 3 | 9 | 1 | 18 | 7.0 | | |
| GEORGIA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ATHENS | 244 | 990.5 | 1020.0 | 13.9 | 0.0 | 7.1 | 0.8 | 21.1 | 15 | -12.8 | 4 | 0 | 14 | -2.2 | 56 | 52 | -67 | 18 | 7 | 0 | 0 | 1.9 | 27 | 10.3 | 28 | 104 | 12 | 7 | 11 | 5.3 | | |
| ATLANTA | 308 | 983.4 | 1020.8 | 13.3 | 0.0 | 6.6 | -1.2 | 20.0 | 284 | -13.3 | 4 | 0 | 15 | -2.2 | 57 | 76 | -59 | 28 | 8 | 0 | 0 | 1.9 | 29 | 14.3 | NW | 25 | 9 | 10 | 11 | 5.7 | 60 | |
| AUGUSTA | 41 | 1016.9 | 1020.3 | 15.6 | -0.6 | 7.4 | -2.2 | 23.3 | 15 | -11.1 | 4 | 0 | 17 | -1 | 62 | 40 | -29 | 22 | 4 | 0 | 0 | 1.6 | 25 | 9.8 | 29 | 3 | 12 | 12 | 5.2 | | | |
| COLUMBUS | 156 | 1007.1 | 1021.5 | 15.6 | 1.1 | 8.1 | -1.7 | 21.7 | 15 | -10.6 | 4 | 0 | 15 | 0.0 | 61 | 107 | -10 | 36 | 10 | 0 | 0 | 1.0 | 29 | 10.3 | 32 | 234 | 11 | 5 | 12 | 5.5 | 65 | |
| MACON | 108 | 1008.1 | 1021.5 | 17.2 | 1.1 | 9.2 | -1.4 | 24.4 | 15 | -10.6 | 4 | 0 | 14 | 0.6 | 61 | 71 | -77 | 27 | 8 | 0 | 0 | 1.3 | 28 | 12.1 | NW | 3 | 12 | 7 | 9 | 5.1 | | |
| ROME | 194 | | | 12.8 | -2.2 | 5.3 | -1.6 | 20.6 | 15 | -14.4 | 4 | 0 | 23 | 69 | 52 | -35 | 27 | 5 | 0 | 0 | 0 | 1.5 | 26 | 15.2 | W | 10 | 11 | 4 | 13 | 5.5 | 68 | |
| SAVANNAH | 14 | 1019.0 | 1020.9 | 16.7 | 2.2 | 9.6 | -2.2 | 24.4 | 15 | -8.3 | 4 | 0 | 1 | 1.1 | 63 | 59 | -35 | 27 | 5 | 0 | 0 | 0 | 1.5 | 26 | 15.2 | W | 10 | 11 | 4 | 13 | 5.5 | 68 |
| HAWAII | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HONOLULU | 8 | 1015.9 | 1017.1 | 26.7 | 16.7 | 21.7 | 0.3 | 29.4 | 20 | 14.4 | 14 | 0 | 0 | 13.9 | 65 | 65 | -264 | 43 | 10 | 0 | 0 | 0.2 | 3 | 10.3 | NW | 154 | 5 | 12 | 11 | 6.4 | 50 | |
| KAHULUI | 15 | 1016.6 | 1016.9 | 27.2 | 18.9 | 22.9 | 0.5 | 30.0 | 1 | 16.7 | 274 | 0 | 0 | 15.0 | 54 | 42 | -63 | 15 | 4 | 0 | 0 | 0 | 2.8 | 4 | 13.9 | ENE | 16 | 14 | 7 | 7.9 | 73 | |
| LIHUE | 31 | 1012.5 | 1017.6 | 25.6 | 16.3 | 21.8 | 0.3 | 28.3 | 194 | 14.4 | 20 | 0 | 0 | 15.6 | 69 | 23 | -113 | 10 | 9 | 0 | 0 | 2.2 | 4 | 11.6 | NE | 234 | 4 | 15 | 9 | 6.3 | 48 | |
| IDAHO | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BOISE | 865 | 920.4 | 1022.5 | 10.6 | 0.0 | 5.1 | 3.7 | 15.6 | 27 | -5.6 | 4 | 0 | 20 | -2.9 | 61 | 8 | -26 | 5 | 5 | 1 | 25 | 1.4 | 13 | 15.2 | SW | 12 | 7 | 6 | 15 | 5.9 | 68 | |
| LEWISTON | 431 | | | 10.0 | 1.1 | 5.6 | 3.4 | 13.3 | 25 | -2.8 | 4 | 0 | 12 | 0 | 61 | 17 | -20 | 2 | 4 | 0 | 13 | 2.5 | 2.3 | 18.8 | SW | 17 | 10 | 5 | 16 | 6.9 | 77 | |
| POCATELLO | 1358 | 866.6 | 1022.6 | 8.3 | -4.8 | 2.9 | 5.6 | 13.3 | 16 | -6.1 | 214 | 0 | 24 | -5.0 | 61 | 3 | -20 | 2 | 4 | 0 | 0 | 1.4 | 13 | 15.2 | SW | 17 | 10 | 5 | 16 | 6.9 | 77 | |
| ILLINOIS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CAIRO U | 96 | | | 6.7 | -1.7 | -2.3 | -2.5 | 17.2 | 18 | -15.0 | 3 | 0 | 18 | 67 | 71 | -22 | 25 | 10 | 0 | 69 | 25 | | | 15.6 | SW | 18 | 8 | 5 | 15 | 6.5 | 44 | |
| CHICAGO O HARE | 231 | 994.6 | 1020.0 | 11.1 | -7.8 | -3.3 | -0.1 | 10.0 | 22 | -21.1 | 3 | 0 | 24 | -8.3 | 67 | 15 | -23 | 7 | 6 | 0 | 160 | 51 | 1.8 | 26 | 13.4 | 34 | 25 | 8 | 5 | 15 | 6.4 | 44 |
| CHICAGO MIDWAY | 185 | 996.3 | 1019.9 | 11.1 | -7.2 | -3.0 | -0.6 | 11.7 | 24 | -21.1 | 3 | 0 | 25 | -8.3 | 67 | 27 | -14 | 15 | 8 | 0 | 229 | 76 | 2.1 | 26 | 14.3 | NW | 25 | | | | | |

CLIMATOLOGICAL DATA

METRIC UNITS

FEBRUARY 1977

| State and Station | Pressure | | Temperature | | | | | | Precipitation | | | | Wind | | | No. of days (sunrise to sunset) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | Station | Sea level | Average | | | Departure from normal | | | Highest | Date | Lowest | Date | Max 32.2 °C or above | Min. 0 °C or lower | Average dew point | Average relative humidity | No. of days | | | Speed | Direction | Date | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | Maximum | Minimum | C | F | C | F | | | | | | | | | C | F | C | | | | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C |

See footnotes at end of table

CLIMATOLOGICAL DATA

METRIC UNITS

FEBRUARY 1970

| State and Station | Elevation (ground) | Pressure | | Temperature | | | | | | Precipitation | | | | | | Wind | | | | No. of days (sunrise to sunset) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | | Station | Sea level | Average | | | Departure from normal | | | Highest | Lowest | Date | No. of days | | Average relative humidity | Total | Departure from normal | Greatest in 24 hours | Snow, Sleet | | Resistant direction | | Fastest mile (1 1/2 kilometers) | | Date | Clear, 0-3 | Partly cloudy, 4-7 | Cloudy, 8-10 | Sky cover, tenths (sunrise to sunset) | Possible sunshine | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | Maximum | Minimum | Average | Maximum | Minimum | Average | | | | Max 32.2 °C or above | Min. 0 °C or lower | | | | | C. | % | Mm. | Mm. | Mm. | Mm. | | | | | | | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. |

METRIC UNITS

June 1971

| State and Station | Pressure | | | Temperature | | | | Precipitation | | | | Wind | | | | No. of days
sunrise to sunset | | | | | | | | | | | | | | | |
|-------------------|-------------------|-------------|--|-----------------|-------------------|-------------|--|---------------|-------------------|-------------|--|---|-------------------|---------------------------|--|----------------------------------|-------------------|-----------------------|--|------------------------------|-------------------|-------------|--|---------------------|-------------------|-------------|--|-------------|-------------|-----|----|
| | Station Q | Sea level | Elevation (ground) | Average maximum | Average minimum | Average | Departure from normal | | Date | Lowest | Highest | No. of days
Max 32° or above
Min. 0° or lower | Average dew point | Average relative humidity | Total | | Mm | Departure from normal | Greatest in 24 hours | No. of days
25 mm or more | Snow | Sleet | Resultant speed
on ground | Resultant direction | Speed | Direction | Fastest mile
(1.6 kilometers) | | | | |
| | | | | | | | No. of days | No. of days | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | No. of days | No. of days | | |
| Clear 0-3 | Partly cloudy 4-7 | Cloudy 8-10 | Sky cover, tenths
(sunrise to sunset) | Clear 0-3 | Partly cloudy 4-7 | Cloudy 8-10 | Sky cover, tenths
(sunrise to sunset) | Clear 0-3 | Partly cloudy 4-7 | Cloudy 8-10 | Sky cover, tenths
(sunrise to sunset) | Clear 0-3 | Partly cloudy 4-7 | Cloudy 8-10 | Sky cover, tenths
(sunrise to sunset) | Clear 0-3 | Partly cloudy 4-7 | Cloudy 8-10 | Sky cover, tenths
(sunrise to sunset) | Clear 0-3 | Partly cloudy 4-7 | Cloudy 8-10 | Sky cover, tenths
(sunrise to sunset) | Clear 0-3 | Partly cloudy 4-7 | Cloudy 8-10 | Sky cover, tenths
(sunrise to sunset) | | | | |
| NORTH CAROLINA | Mb | 941.1 | 1019.0 | 11.1 | -3.1 | 3.9 | 0.1 | 18.9 | 28 | -17.2 | 4 | 0 | 2.1 | -3.2 | 64 | 61 | -41 | 73 | 7 | 2 | 28 | 25 | 1.7 | 34 | 15.6 | 17 | 2 | 12 | 13 | 5.7 | 76 |
| ASHEVILLE | 652 | 941.1 | 1019.0 | 11.1 | -3.1 | 3.9 | 0.1 | 18.9 | 28 | -17.2 | 4 | 0 | 2.1 | -3.2 | 64 | 61 | -41 | 73 | 7 | 2 | 28 | 25 | 1.7 | 34 | 15.6 | 17 | 2 | 12 | 13 | 5.7 | 76 |
| WATKINSVILLE | 2 | 941.1 | 1019.0 | 11.1 | -3.1 | 3.9 | 0.1 | 18.9 | 28 | -17.2 | 4 | 0 | 2.1 | -3.2 | 64 | 61 | -41 | 73 | 7 | 2 | 28 | 25 | 1.7 | 34 | 15.6 | 17 | 2 | 12 | 13 | 5.7 | 76 |
| WATKINSVILLE | 2 | 941.1 | 1019.0 | 11.1 | -3.1 | 3.9 | 0.1 | 18.9 | 28 | -17.2 | 4 | 0 | 2.1 | -3.2 | 64 | 61 | -41 | 73 | 7 | 2 | 28 | 25 | 1.7 | 34 | 15.6 | 17 | 2 | 12 | 13 | 5.7 | 76 |
| WATKINSVILLE | 2 | 941.1 | 1019.0 | 11.1 | -3.1 | 3.9 | 0.1 | 18.9 | 28 | -17.2 | 4 | 0 | 2.1 | -3.2 | 64 | 61 | -41 | 73 | 7 | 2 | 28 | 25 | 1.7 | 34 | 15.6 | 17 | 2 | 12 | 13 | 5.7 | 76 |
| WATKINSVILLE | 2 | 941.1 | 1019.0 | 11.1 | -3.1 | 3.9 | 0.1 | 18.9 | 28 | -17.2 | 4 | 0 | 2.1 | -3.2 | 64 | 61 | -41 | 73 | 7 | 2 | 28 | 25 | 1.7 | 34 | 15.6 | 17 | 2 | 12 | 13 | 5.7 | 76 |
| WATKINSVILLE | 2 | 941.1 | 1019.0 | 11.1 | -3.1 | 3.9 | 0.1 | 18.9 | 28 | -17.2 | 4 | 0 | 2.1 | -3.2 | 64 | 61 | -41 | 73 | 7 | 2 | 28 | 25 | 1.7 | 34 | 15.6 | 17 | 2 | 12 | 13 | 5.7 | 76 |
| WATKINSVILLE | 2 | 941.1 | 1019.0 | 11.1 | -3.1 | 3.9 | 0.1 | 18.9 | 28 | -17.2 | 4 | 0 | 2.1 | -3.2 | 64 | 61 | -41 | 73 | 7 | 2 | 28 | 25 | 1.7 | 34 | 15.6 | 17 | 2 | 12 | 13 | 5.7 | 76 |
| WATKINSVILLE | 2 | 941.1 | 1019.0 | 11.1 | -3.1 | 3.9 | 0.1 | 18.9 | 28 | -17.2 | 4 | 0 | 2.1 | -3.2 | 64 | 61 | -41 | 73 | 7 | 2 | 28 | 25 | 1.7 | 34 | 15.6 | 17 | 2 | 12 | 13 | 5.7 | 76 |
| WATKINSVILLE | 2 | 941.1 | 1019.0 | 11.1 | -3.1 | 3.9 | 0.1 | 18.9 | 28 | -17.2 | 4 | 0 | 2.1 | -3.2 | 64 | 61 | -41 | 73 | 7 | 2 | 28 | 25 | 1.7 | 34 | 15.6 | 17 | 2 | 12 | 13 | 5.7 | 76 |
| WATKINSVILLE | 2 | 941.1 | 1019.0 | 11.1 | -3.1 | 3.9 | 0.1 | 18.9 | 28 | -17.2 | 4 | 0 | 2.1 | -3.2 | 64 | 61 | -41 | 73 | 7 | 2 | 28 | 25 | 1.7 | 34 | 15.6 | 17 | 2 | 12 | 13 | 5.7 | 76 |
| WATKINSVILLE | 2 | 941.1 | 1019.0 | 11.1 | -3.1 | 3.9 | 0.1 | 18.9 | 28 | -17.2 | 4 | 0 | 2.1 | -3.2 | 64 | 61 | -41 | 73 | 7 | 2 | 28 | 25 | 1.7 | 34 | 15.6 | 17 | 2 | 12 | 13 | 5.7 | 76 |
| WATKINSVILLE | 2 | 941.1 | 1019.0 | 11.1 | -3.1 | 3.9 | 0.1 | 18.9 | 28 | -17.2 | 4 | 0 | 2.1 | -3.2 | 64 | 61 | -41 | 73 | 7 | 2 | 28 | 25 | 1.7 | 34 | 15.6 | 17 | 2 | 12 | 13 | 5.7 | 76 |
| WATKINSVILLE | 2 | 941.1 | 1019.0 | 11.1 | -3.1 | 3.9 | 0.1 | 18.9 | 28 | -17.2 | 4 | 0 | 2.1 | -3.2 | 64 | 61 | -41 | 73 | 7 | 2 | 28 | 25 | 1.7 | 34 | 15.6 | 17 | 2 | 12 | 13 | 5.7 | 76 |
| WATKINSVILLE | 2 | 941.1 | 1019.0 | 11.1 | -3.1 | 3.9 | 0.1 | 18.9 | 28 | -17.2 | 4 | 0 | 2.1 | -3.2 | 64 | 61 | -41 | 73 | 7 | 2 | 28 | 25 | 1.7 | 34 | 15.6 | 17 | 2 | 12 | 13 | 5.7 | 76 |
| WATKINSVILLE | 2 | 941.1 | 1019.0 | 11.1 | -3.1 | 3.9 | 0.1 | 18.9 | 28 | -17.2 | 4 | 0 | 2.1 | -3.2 | 64 | 61 | -41 | 73 | 7 | 2 | 28 | 25 | 1.7 | 34 | 15.6 | 17 | 2 | 12 | 13 | 5.7 | 76 |
| WATKINSVILLE | 2 | 941.1 | 1019.0 | 11.1 | -3.1 | 3.9 | 0.1 | 18.9 | 28 | -17.2 | 4 | 0 | 2.1 | -3.2 | 64 | 61 | -41 | 73 | 7 | 2 | 28 | 25 | 1.7 | 34 | 15.6 | 17 | 2 | 12 | 13 | 5.7 | 76 |
| WATKINSVILLE | 2 | 941.1 | 1019.0 | 11.1 | -3.1 | 3.9 | 0.1 | 18.9 | 28 | -17.2 | 4 | 0 | 2.1 | -3.2 | 64 | 61 | -41 | 73 | 7 | 2 | 28 | 25 | 1.7 | 34 | 15.6 | 17 | 2 | 12 | 13 | 5.7 | 76 |
| WATKINSVILLE | 2 | 941.1 | 1019.0 | 11.1 | -3.1 | 3.9 | 0.1 | 18.9 | 28 | -17.2 | 4 | 0 | 2.1 | -3.2 | 64 | 61 | -41 | 73 | 7 | 2 | 28 | 25 | 1.7 | 34 | 15.6 | 17 | 2 | 12 | 13 | 5.7 | 76 |
| WATKINSVILLE | 2 | 941.1 | 1019.0 | 11.1 | -3.1 | 3.9 | 0.1 | 18.9 | 28 | -17.2 | 4 | 0 | 2.1 | -3.2 | 64 | 61 | -41 | 73 | 7 | 2 | 28 | 25 | 1.7 | 34 | 15.6 | 17 | 2 | 12 | 13 | 5.7 | 76 |
| WATKINSVILLE | 2 | 941.1 | 1019.0 | 11.1 | -3.1 | 3.9 | 0.1 | 18.9 | 28 | -17.2 | 4 | 0 | 2.1 | -3.2 | 64 | 61 | -41 | 73 | 7 | 2 | 28 | 25 | 1.7 | 34 | 15.6 | 17 | 2 | 12 | 13 | 5.7 | 76 |
| WATKINSVILLE | 2 | 941.1 | 1019.0 | 11.1 | -3.1 | 3.9 | 0.1 | 18.9 | 28 | -17.2 | 4 | 0 | 2.1 | -3.2 | 64 | 61 | -41 | 73 | 7 | 2 | 28 | 25 | 1.7 | 34 | 15.6 | 17 | 2 | 12 | 13 | 5.7 | 76 |
| WATKINSVILLE | 2 | 941.1 | 1019.0 | 11.1 | -3.1 | 3.9 | 0.1 | 18.9 | 28 | -17.2 | 4 | 0 | 2.1 | -3.2 | 64 | 61 | -41 | 73 | 7 | 2 | 28 | 25 | 1.7 | 34 | 15.6 | 17 | 2 | 12 | 13 | 5.7 | 76 |
| WATKINSVILLE | 2 | 941.1 | 1019.0 | 11.1 | -3.1 | 3.9 | 0.1 | 18.9 | 28 | -17.2 | 4 | 0 | 2.1 | -3.2 | 64 | 61 | -41 | 73 | 7 | 2 | 28 | 25 | 1.7 | 34 | 15.6 | 17 | 2 | 12 | 13 | 5.7 | 76 |
| WATKINSVILLE | 2 | 941.1 | 1019.0 | 11.1 | -3.1 | 3.9 | 0.1 | 18.9 | 28 | -17.2 | 4 | 0 | 2.1 | -3.2 | 64 | 61 | -41 | 73 | 7 | 2 | 28 | 25 | 1.7 | 34 | 15.6 | 17 | 2 | 12 | 13 | 5.7 | 76 |
| WATKINSVILLE | 2 | 941.1 | 1019.0 | 11.1 | -3.1 | 3.9 | 0.1 | 18.9 | 28 | -17.2 | 4 | 0 | 2.1 | -3.2 | 64 | 61 | -41 | 73 | 7 | 2 | 28 | 25 | 1.7 | 34 | 15.6 | 17 | 2 | 12 | 13 | 5.7 | 76 |
| WATKINSVILLE | 2 | 941.1 | 1019.0 | 11.1 | -3.1 | 3.9 | 0.1 | 18.9 | 28 | -17.2 | 4 | 0 | 2.1 | -3.2 | 64 | 61 | -41 | 73 | 7 | 2 | 28 | 25 | 1.7 | 34 | 15.6 | 17 | 2 | 12 | 13 | 5.7 | 76 |
| WATKINSVILLE | 2 | 941.1 | 1019.0 | 11.1 | -3.1 | 3.9 | 0.1 | 18.9 | 28 | -17.2 | 4 | 0 | 2.1 | -3.2 | 64 | 61 | -41 | 73 | 7 | 2 | 28 | 25 | 1.7 | 34 | 15.6 | 17 | 2 | 12 | 13 | 5.7 | 76 |
| WATKINSVILLE | 2 | 941.1 | 1019.0 | 11.1 | -3.1 | 3.9 | 0.1 | 18.9 | 28 | -17.2 | 4 | 0 | 2.1 | -3.2 | 64 | 61 | -41 | 73 | 7 | 2 | 28 | 25 | 1.7 | 34 | 15.6 | 17 | 2 | 12 | 13 | 5.7 | 76 |
| WATKINSVILLE | 2 | 941.1 | 1019.0 | 11.1 | -3.1 | 3.9 | 0.1 | 18.9 | 28 | -17.2 | 4 | 0 | 2.1 | -3.2 | 64 | 61 | -41 | 73 | 7 | 2 | 28 | 25 | 1.7 | 34 | 15.6 | 17 | 2 | 12 | 13 | 5.7 | 76 |
| WATKINSVILLE | 2 | 941.1 | 1019.0 | 11.1 | -3.1 | 3.9 | 0.1 | 18.9 | 28 | -17.2 | 4 | 0 | 2.1 | -3.2 | 64 | 61 | -41 | 73 | 7 | 2 | 28 | 25 | 1.7 | 34 | 15.6 | 17 | 2 | 12 | 13 | 5.7 | 76 |
| WATKINSVILLE | 2 | 941.1 | 1019.0 | 11.1 | -3.1 | 3.9 | 0.1 | 18.9 | 28 | -17.2 | 4 | 0 | 2.1 | -3.2 | 64 | 61 | -41 | 73 | 7 | 2 | 28 | 25 | 1.7 | 34 | 15.6 | 17 | 2 | 12 | 13 | 5.7 | 76 |
| WATKINSVILLE | 2 | 941.1 | 1019.0 | 11.1 | -3.1 | 3.9 | 0.1 | 18.9 | 28 | -17.2 | 4 | 0 | 2.1 | -3.2 | 64 | 61 | -41 | 73 | 7 | 2 | 28 | 25 | 1.7 | 34 | 15.6 | 17 | 2 | 12 | 13 | 5.7 | 76 |
| WATKINSVILLE | 2 | 941.1 | 1019.0 | 11.1 | -3.1 | 3.9 | 0.1 | 18.9 | 28 | -17.2 | 4 | 0 | 2.1 | -3.2 | 64 | 61 | -41 | 73 | 7 | 2 | 28 | 25 | 1.7 | 34 | 15.6 | 17 | 2 | 12 | 13 | 5.7 | 76 |
| WATKINSVILLE | 2 | 941.1 | 1019.0 | 11.1 | -3.1 | 3.9 | 0.1 | 18.9 | 28 | -17.2 | 4 | 0 | 2.1 | -3.2 | 64 | 61 | -41 | 73 | 7 | 2 | 28 | 25 | 1.7 | 34 | 15.6 | 17 | 2 | 12 | 13 | 5.7 | 76 |
| WATKINSVILLE | 2 | 941.1 | 1019.0 | 11.1 | -3.1 | 3.9 | 0.1 | 18.9 | 28 | -17.2 | 4 | 0 | 2.1 | -3.2 | 64 | 61 | -41 | 73 | 7 | 2 | 28 | 25 | 1.7 | 34 | 15.6 | 17 | 2 | 12 | 13 | 5.7 | 76 |
| WATKINSVILLE | 2 | 941.1 | 1019.0 | 11.1 | -3.1 | 3.9 | 0.1 | 18.9 | 28 | -17.2 | 4 | 0 | 2.1 | -3.2 | 64 | 61 | -41 | 73 | 7 | 2 | 28 | 25 | 1.7 | 34 | 15.6 | 17 | 2 | 12 | 13 | 5.7 | 76 |
| WATKINSVILLE | 2 | 941.1 | 1019.0 | 11.1 | -3.1 | 3.9 | 0.1 | 18.9 | 28 | -17.2 | 4 | 0 | 2.1 | -3.2 | 64 | 61 | -41 | 73 | 7 | 2 | 28 | 25 | 1.7 | 34 | 15.6 | 17 | 2 | 12 | 13 | 5.7 | 76 |
| WATKINSVILLE | 2 | 941.1 | 1019.0 | 11.1 | -3.1 | 3.9 | 0.1 | 18.9 | 28 | -17.2 | 4 | 0 | 2.1 | -3.2 | 64 | 61 | -41 | 73 | 7 | 2 | 28 | 25 | 1.7 | 34 | 15.6 | 17 | 2 | 12 | 13 | 5.7 | 76 |
| WATKINSVILLE | 2 | 941.1 | 1019.0 | 11.1 | -3.1 | 3.9 | 0.1 | 18.9 | 28 | -17.2 | 4 | 0 | 2.1 | -3.2 | 64 | 61 | -41 | 73 | 7 | 2 | 28 | 25 | 1.7 | 34 | 15.6 | 17 | 2 | 12 | 13 | 5.7 | 76 |
| WATKINSVILLE | 2 | 941.1 | 1019.0 | 11.1 | -3.1 | 3.9 | 0.1 | 18.9 | 28 | -17.2 | 4 | 0 | 2.1 | -3.2 | 64 | 61 | -41 | 73 | 7 | 2 | 28 | 25 | 1.7 | 34 | 15.6 | 17 | 2 | 12 | 13 | 5.7 | 76 |
| WATKINSVILLE | 2 | 941.1 | 1019.0 | 11.1 | -3.1 | 3.9 | 0.1 | 18.9 | 28 | -17.2 | 4 | 0 | 2.1 | -3.2 | 64 | 61 | -41 | 73 | 7 | 2 | 28 | 25 | 1.7 | 34 | 15.6 | 17 | 2 | 12 | 13 | 5.7 | 76 |
| WATKINSVILLE | 2 | 941.1 | 1019.0 | 11.1 | -3.1 | 3.9 | 0.1 | 18.9 | 28 | -17.2 | 4 | 0 | 2.1 | -3.2 | 64 | 61 | -41 | 73 | 7 | 2 | 28 | 25 | 1.7 | 34 | 15.6 | 17 | 2 | 12 | 13 | 5.7 | 76 |
| WATKINSVILLE | 2 | 941.1 | 1019.0 | 11.1 | -3.1 | 3.9 | 0.1 | 18.9 | 28 | -17.2 | 4 | 0 | 2.1 | -3.2 | 64 | 61 | -41 | 73 | 7 | 2 | 28 | 25 | 1.7 | 34 | 15.6 | 17 | 2 | 12 | 13 | 5.7 | 76 |
| WATKINSVILLE | 2 | 941.1 | 1019.0 | 11.1 | -3.1 | 3.9 | 0.1 | 18.9 | 28 | -17.2 | 4 | 0 | 2.1 | -3.2 | 64 | 61 | -41 | 73 | 7 | 2 | 28 | 25 | 1.7 | 34 | 15.6 | 17 | 2 | 12 | 13 | 5.7 | 76 |
| WATKINSVILLE | 2 | 941.1 | 1019.0 | 11.1 | -3.1 | 3.9 | 0.1 | 18.9 | 28 | -17.2 | 4 | 0 | 2.1 | -3.2 | 64 | 61 | -41 | 73 | 7 | 2 | 28 | 25 | 1.7 | 34 | 15.6 | 17 | 2 | 12 | 13 | 5.7 | 76 |
| WATKINSVILLE | 2 | 941.1 | 1019.0 | 11.1 | -3.1 | 3.9 | 0.1 | 18.9 | 28 | -17.2 | 4 | 0 | 2.1 | -3.2 | 64 | 61 | -41 | 73 | 7 | 2 | 28 | 25 | 1.7 | 34 | 15.6 | 17 | 2 | 12 | 13 | | |

See footnotes at end of table

METRIC UNITS

FEBRUARY 1970

See footnotes at end of table

CLIMATOLOGICAL DATA

METRIC UNITS

1951-1953

| State and Station | Elevation ground | Pressure | | Temperature | | | | | | | | | | Precipitation | | | | | Wind | | | No. of days
sunrise to
sunset | Sky cover
tenths | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | | Station
O | Sea level | Average maximum | Average minimum | Average | | Departure from normal | | Highest | Lowest | Date | No. of
days | Max 32° or above | Min. 0° or lower | Average dew point | Average relative humidity | Total | Departure from normal | Greatest in 24 hours | 25 mm. or more | | | With thunders-
torms | Total | | Resultant speed | Resultant direction | Speed | | Direction | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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Data from airport unless otherwise specified. U indicates Urban, R indicates Rural, S, sales.

Precipitation data in column headed "Greatest in 24 hours" are computed on a 24-hour basis without regard to calendar day - data may include precipitation with a measurable amount from the last day of the previous month or the first day of the following month.

Wind directions under resultant direction are in tens of degrees.

Value entered in column "Fastest Mile" is the highest observed 1-minute wind speed when the direction is in tens of degrees. These stations are not equipped with a recording anemometer from which "Fastest Mile" data can be evaluated.

B Number of days maximum 21.1°C. or above for Alaskan Stations.

Y Peak Gust.

+ And also on an earlier date or dates.

Ø Station pressures apply to elevations shown in the "Elevations - Station Pressure" table of the annual issue of this publication.

Data in this table are obtained by conversion from data in the English Units table.

HEATING DEGREE DAYS

(Base 65°F.)

FEBRUARY 1970

| State and station | Current season | | Normals
July through this month | State and station | Current season | | Normals
July through this month | State and station | Current season | | Normals
July through this month | State and station | Current season | | Normals
July through this month |
|---|--|---|---|--|--|--|--|--|--|--|--|--|--|---|--|
| | This month | Period July through this month | | | This month | Period July through this month | | | This month | Period July through this month | | | This month | Period July through this month | |
| ALABAMA
BIRMINGHAM
HUNTSVILLE
MOBILE
MONTGOMERY | 568
679
375
505 | 2618
2962
1478
2283 | 2071
2479
1307
1885 | ILLINOIS
CAIRO U
CHICAGO O HARE
CHICAGO MIDWAY
MOLINE
PEORIA
ROCKFORD
SPRINGFIELD | 800
1086
1071
1120
1088
1191
1013 | 3566
5026
4889
5310
5182
5525
4782 | 3040
4834
4526
4812
4534
5057
4152 | NEVADA
ELKO
ELY
LAS VEGAS
RENO
WINNEMUCCA | 782
834
344
638
699 | 4900
4827
2029
3833
4327 | 5300
5403
2257
4547
4835 | TEXAS
ABILENE
AMARILLO
AUSTIN
BROWNSVILLE
CORPUS CHRISTI
DALLAS
DEL RIO
EL PASO
FORT WORTH
GALVESTON U
HOUSTON
LUBBOCK
MIDLAND
PORT ARTHUR
SAN ANGELO
SAN ANTONIO
VICTORIA
WACO
WICHITA FALLS | 449
602
330
72
168
422
277
348
455
244
309
519
482
293
391
282
230
414
526 | 2267
3318
1644
1484
932
1977
1493
1841
2096
1059
1459
2859
2341
1153
1943
1485
1118
1930
2698 | 2100
3131
1437
526
805
1948
1339
2276
1987
1016
1408
2862
2179
1216
1901
1312
1070
1694
2328 |
| ALASKA
ANCHORAGE
ANNETTE
BARROW
BARTER ISLAND
BETHEL
BETTES
BIG DELTA
COLD BAY
FAIRBANKS
GULKANA
HOMER
ILITAMNA
JUNEAU
KING SALMON
KOTZEBUE
MC GRATH
NOME
ST. PAUL ISLAND
SHEMYA
SUMMIT
TALKEETNA
UNALAKLEET
YAKUTAT | 983
640
2303
2308
1355
1789
1338
1416
1025
1595
1294
884
1054
830
1078
1710
1639
1475
1079
974
1305
1045
1489
873 | 6776
4063
13738
13313
9289
10784
9125
6144
9989
9714
6507
7415
6091
7789
10422
10492
9451
6864
6133
9310
7637
9350
6169 | 7725
4767
13360
13165
9160
9160
6425
10695 | INDIANA
EVANSVILLE
FORT WAYNE
INDIANAPOLIS
SOUTH BEND
IOWA
BURLINGTON
DES MOINES
DUBOQUE
SIOUX CITY
WATERLOO
KANSAS
CONCORDIA
DODGE CITY
GOODLAND
TOPEKA
WICHITA
KENTUCKY
COVINGTON
LEXINGTON
LOUISVILLE
LOUISIANA
BATON ROUGE
LAKE CHARLES
NEW ORLEANS
SHREVEPORT
MAINE
CARIBOU
PORTLAND
MARYLAND
BALTIMORE
MASSACHUSETTS
BLUE HILL OBS R
BOSTON
WORCESTER
MICHIGAN
ALPENA
DETROIT
DETROIT METRO
FLINT
GRAND RAPIDS
HOUGHTON LAKE
LANSING
MARQUETTE U
MUSKEGON
SAULT STE MARIE
MINNESOTA
DULUTH
INTERNATIONAL FALLS
MINNEAPOLIS
ROCHESTER
ST CLOUD
MISSISSIPPI
JACKSON
MERIDIAN
MISSOURI
COLUMBIA REGIONAL
KANSAS CITY
ST JOSEPH
ST LOUIS
SPRINGFIELD
MONTANA
BILLINGS
GLASGOW
GREAT FALLS
HAVRE
HELENA
KALISPELL
MILES CITY
MISSOULA
NEBRASKA
GRAND ISLAND
LINCOLN U
NORFOLK
NORTH PLATTE
OMAHA
SCOTTSBLUFF
VALENTINE | 896
1053
1012
1094
1046
1055
1281
1057
1330
824
672
768
811
738
954
908
875
379
354
367
429
1449
1104
822
1014
909
1137
1354
1119
1130
1156
1186
1373
1153
1323
1172
1531
1581
1694
1382
1392
1476
516
515
922
785
767
893
845
891
1297
908
1242
904
1054
1045
911
919
883
1015
923
917
891
991 | 4223
5095
4866
5094
5142
5238
6031
5522
6347
4313
3646
4179
4269
3813
4389
4088
3956
1627
1604
1501
2052
6827
5135
3724
4859
4210
5346
6153
4946
5125
5402
5511
6192
5313
5942
5245
6716
7184
7821
6252
6447
6743
2274
2280
4323
3862
4052
4131
4003
5006
6307
5326
6202
5570
5891
5577
5539
4937
4632
5339
4924
4883
4752
5208 | 3510
4616
4242
4682
4619
5102
5466
5226
5483
4159
3780
4472
3994
3612
3946
3568
3549
1319
1225
1154
1799
6950
5311
3558
4517
4031
4977
5909
4512
4692
4932
5024
5882
4977
5790
4719
6283
7117
7747
6226
6121
6561
1817
1898
3873
3626
4219
3748
3499
5122
6676
5475
6362
5860
5919
5712
5924
4904
4427
5217
4930
4748
5429 | UTAH
MILFORD
SALT LAKE CITY
WENDOVER
VERMONT
BURLINGTON
VIRGINIA
LYNCHBURG
NORFOLK
PICHMOND
ROANOKE
WALLOPS ISLAND
WASHINGTON
OLYMPIA
QUILLAYUTE
SEATTLE TACOMA
SPOKANE
STAMPEDE PASS R
WALLA WALLA U
YAKIMA
WEST VIRGINIA
BECKLEY
CHARLESTON
ELKINS
HUNTINGTON
PARKERSBURG U
WISCONSIN
GREEN BAY
LA CROSSE
MADISON
MILWAUKEE
WYOMING
CASPER
CHEYENNE
LANDER
SHERIDAN | 755
681
731
731
1342
798
714
778
783
802
615
536
499
797
637
693
938
801
986
866
896
1381
1236
1252
1180
897
846
869
944 | 4356
3926
4241
4241
6453
3811
3023
3568
3771
3531
3725
3701
3007
4888
3552
4287
4720
4083
5046
4159
4216
6413
5864
6057
5642
5136
4831
5167
5385 | 4790
4513
4413
5925
4216
5800
5665
5720
5432
5223
5112
5665
5471 | | | | |
| IDAHO
BOISE
LEWISTON
POCATELLO | 659
638
772 | 3923
3844
4685 | 4323
4093
5113 | | | | | | | | | | | | |

(Base 65°F.)

| State and station | Current season | | Normals January through this month | | | Current season | | | State and station | Current season | | Normals January through this month | | | Current season | | | State and station | Current season | | Normals January through this month | | | |
|-------------------|----------------|-----------------------------------|------------------------------------|--|--|----------------|--|--|-------------------|----------------|-----------------------------------|------------------------------------|--|--|----------------|--|--|-------------------|----------------|-----------------------------------|------------------------------------|--|--|------------|
| | This month | Period January through this month | | | | | | | | This month | Period January through this month | | | | | | | | This month | Period January through this month | | | | This month |
| ALABAMA | | | | | | | | | ALABAMA | | | | | | | | | ALABAMA | | | | | | |
| BIRMINGHAM | 0 | 0 | | | | | | | BIRMINGHAM | 0 | 0 | | | | | | | BIRMINGHAM | 0 | 0 | | | | |
| HUNTSVILLE | 2 | 8 | | | | | | | HUNTSVILLE | 2 | 8 | | | | | | | HUNTSVILLE | 2 | 8 | | | | |
| MOBILE | 0 | 0 | | | | | | | MOBILE | 0 | 0 | | | | | | | MOBILE | 0 | 0 | | | | |
| MONTGOMERY | 0 | 0 | | | | | | | MONTGOMERY | 0 | 0 | | | | | | | MONTGOMERY | 0 | 0 | | | | |
| ALASKA | | | | | | | | | ALASKA | | | | | | | | | ALASKA | | | | | | |
| ANCHORAGE | 0 | 0 | | | | | | | ANCHORAGE | 0 | 0 | | | | | | | ANCHORAGE | 0 | 0 | | | | |
| ANCHORAGE | 0 | 0 | | | | | | | ANCHORAGE | 0 | 0 | | | | | | | ANCHORAGE | 0 | 0 | | | | |
| BARROW | 0 | 0 | | | | | | | BARROW | 0 | 0 | | | | | | | BARROW | 0 | 0 | | | | |
| BARROW ISLAND | 0 | 0 | | | | | | | BARROW ISLAND | 0 | 0 | | | | | | | BARROW ISLAND | 0 | 0 | | | | |
| BETHEL | 0 | 0 | | | | | | | BETHEL | 0 | 0 | | | | | | | BETHEL | 0 | 0 | | | | |
| BETHEL | 0 | 0 | | | | | | | BETHEL | 0 | 0 | | | | | | | BETHEL | 0 | 0 | | | | |
| BIG DELTA | 0 | 0 | | | | | | | BIG DELTA | 0 | 0 | | | | | | | BIG DELTA | 0 | 0 | | | | |
| COLD BAY | 0 | 0 | | | | | | | COLD BAY | 0 | 0 | | | | | | | COLD BAY | 0 | 0 | | | | |
| FAIRBANKS | 0 | 0 | | | | | | | FAIRBANKS | 0 | 0 | | | | | | | FAIRBANKS | 0 | 0 | | | | |
| SOLYANA | 0 | 0 | | | | | | | SOLYANA | 0 | 0 | | | | | | | SOLYANA | 0 | 0 | | | | |
| WHEAT | 0 | 0 | | | | | | | WHEAT | 0 | 0 | | | | | | | WHEAT | 0 | 0 | | | | |
| ILIAMNA | 0 | 0 | | | | | | | ILIAMNA | 0 | 0 | | | | | | | ILIAMNA | 0 | 0 | | | | |
| JUNEAU | 0 | 0 | | | | | | | JUNEAU | 0 | 0 | | | | | | | JUNEAU | 0 | 0 | | | | |
| KING SALMON | 0 | 0 | | | | | | | KING SALMON | 0 | 0 | | | | | | | KING SALMON | 0 | 0 | | | | |
| KOTZEBUE | 0 | 0 | | | | | | | KOTZEBUE | 0 | 0 | | | | | | | KOTZEBUE | 0 | 0 | | | | |
| MC GRATH | 0 | 0 | | | | | | | MC GRATH | 0 | 0 | | | | | | | MC GRATH | 0 | 0 | | | | |
| NOME | 0 | 0 | | | | | | | NOME | 0 | 0 | | | | | | | NOME | 0 | 0 | | | | |
| ST. PAUL ISLAND | 0 | 0 | | | | | | | ST. PAUL ISLAND | 0 | 0 | | | | | | | ST. PAUL ISLAND | 0 | 0 | | | | |
| SHENYA | 0 | 0 | | | | | | | SHENYA | 0 | 0 | | | | | | | SHENYA | 0 | 0 | | | | |
| SUMMIT | 0 | 0 | | | | | | | SUMMIT | 0 | 0 | | | | | | | SUMMIT | 0 | 0 | | | | |
| TALKEETNA | 0 | 0 | | | | | | | TALKEETNA | 0 | 0 | | | | | | | TALKEETNA | 0 | 0 | | | | |
| UNALASKA | 0 | 0 | | | | | | | UNALASKA | 0 | 0 | | | | | | | UNALASKA | 0 | 0 | | | | |
| YAKUTAT | 0 | 0 | | | | | | | YAKUTAT | 0 | 0 | | | | | | | YAKUTAT | 0 | 0 | | | | |
| ARIZONA | | | | | | | | | ARIZ | | | | | | | | | | | | | | | |

STORM SUMMARY

FEBRUARY 1970

| STATE | TORNADOES | | | | | HAILSTORMS | | | | WINDSTORMS | | | | LIGHTNING | | | | # HEAVY SNOWSTORMS
AND BLIZZARDS | | | | # ICE STORMS | | | | ALL OTHER | | | | |
|--------------------|-----------|------|--------|----------|--------|------------|----------|---------------|-------|------------|----------|---------------|-------|-----------|----------|---------------|-------|-------------------------------------|----------|---------------|-------|--------------|----------|--------|---|-----------|----------|--------|---|---|
| | NUMBER | DAYS | DEATHS | INJURIES | DAMAGE | DEATHS | INJURIES | DAMAGE | | DEATHS | INJURIES | DAMAGE | | DEATHS | INJURIES | DAMAGE | | DEATHS | INJURIES | DAMAGE | | DEATHS | INJURIES | DAMAGE | | DEATHS | INJURIES | DAMAGE | | |
| | | | | | | | | PROP.
ERTY | CROPS | | | PROP.
ERTY | CROPS | | | PROP.
ERTY | CROPS | | | PROP.
ERTY | CROPS | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Alabama * | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Alaska * | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Arizona * | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Arkansas * | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| California | | | | | | | | | | 0 | 0 | 4 | 0 | | | | | | | | | | | | | | | | | |
| Colorado * | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Connecticut | | | | | | | | | | 0 | 0 | 5 | 0 | | | | | | | | | | | | | | | | | |
| Delaware | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Florida | 7 | 2 | 0 | 0 | 5 | | | | | 0 | 0 | 5 | 0 | | | | | | | 0 | ? | 4 | 0 | | | 0 | 1 | 5 | 0 | |
| Georgia | 1 | 1 | 0 | 2 | 5 | | | | | | | | | | | | | | | | | | | | | 0 | 0 | 6 | 0 | |
| Hawaii * | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Idaho * | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Illinois * | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Indiana * | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Iowa * | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kansas * | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kentucky | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Louisiana | | | | | | | | | | 0 | 20 | 6 | 0 | | | | | | 0 | ? | ? | 0 | | | 1 | 0 | ? | 0 | | |
| Maine | | | | | | | | | | 0 | 0 | 5 | 0 | | | | | | 0 | 0 | 3 | 0 | | | 0 | 0 | 5 | 0 | | |
| Maryland | | | | | | | | | | 0 | 0 | 4 | 0 | | | | | | | | ? | 5 | 0 | | | | | | | |
| Massachusetts | | | | | | | | | | 0 | 12 | 6 | 0 | | | | | 1 | 0 | 4 | 0 | 0 | | 4 | 0 | 0 | 0 | 5 | 0 | |
| Michigan * | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Minnesota | | | | | | | | | | 0 | 0 | ? | 0 | | | | | | | | | | | | | | | | | |
| Mississippi | 3 | 1 | 0 | 10 | 5 | | | | | 0 | 2 | 5 | 0 | | | | | | | | | | | | | 0 | 0 | 4 | 0 | |
| Missouri * | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Montana | | | | | | | | | | 0 | 0 | ? | 0 | | | | | | | | | | | | | | | | | |
| Nebraska * | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nevada * | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| New Hampshire | | | | | | | | | | 0 | 0 | 4 | 0 | | | | | | | 0 | 0 | 3 | 0 | | | 0 | 0 | 4 | 0 | |
| New Jersey * | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| New Mexico * | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| New York | | | | | | | | | | | | 4 | | | | | | | | | | | | | | | | 5 | | |
| North Carolina | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 0 | 0 | 0 | |
| North Dakota | | | | | | | | | | | | | | 0 | ? | 0 | 0 | | | | | | | | | | | | | |
| Ohio * | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Oklahoma * | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Oregon * | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pacific Area | | | | | | | | | | | | | | | | | | | | | | | | | | | 0 | 0 | 6 | 5 |
| Pennsylvania | | | | | | | | | | | | 4 | | | | | | | | | | 4 | | | | | | | | |
| Puerto Rico * | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Rhode Island | | | | | | | | | | 0 | 0 | 5 | 0 | | | | | | | | | | | | | 0 | 0 | 5 | 0 | |
| South Carolina * | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| South Dakota * | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tennessee | | | | | | | | | | 0 | 0 | 4 | 0 | | | | | 0 | 0 | 4 | 0 | | | | | | | | | |
| Texas | 3 | 1 | 0 | 2 | 3 | | | | | 2 | 0 | 4 | 0 | | | | | | | | | | | | | | | | | |
| Utah * | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Vermont * | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| U. S. Virgin Is. * | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Virginia * | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Washington * | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| West Virginia | | | | | | | | | | | | | | | | | | | | | | | | | | 0 | 0 | 5 | 0 | |
| Wisconsin * | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Wyoming * | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

* No occurrence of storms or unusual weather phenomena.

‡ Includes heavy sleet storm.

Freezing drizzle and freezing rain, commonly known as glaze.

¶ For breakdown of "All Others", and for detailed listing of other storms, see the Environmental Data Service, ESSA, monthly publication STORM DATA.

+ Storm damages are placed in categories varying from 1 to 9 as follows:

- 1 Less than \$50
- 2 \$50 to \$500
- 3 \$500 to \$5,000
- 4 \$5,000 to \$50,000
- 5 \$50,000 to \$500,000
- 6 \$500,000 to \$5,000,000
- 7 \$5,000,000 to \$50,000,000
- 8 \$50,000,000 to \$500,000,000
- 9 \$500,000,000 to \$5,000,000,000

GENERAL SUMMARY OF RIVER AND FLOOD CONDITIONS

FEBRUARY 1970

Elmer R. Nelson, Office of Hydrology

No major flooding was reported in the nation during February. Damage from overflow was minor.

Precipitation was light or moderate in most of the United States, except for heavy rains in parts of New England, Florida, Arkansas, Texas, and a few other scattered areas.

ST. LAWRENCE DRAINAGE

Lake Erie--An icejam caused the St. Marys River at Decatur, Ind., to rise above flood stage on January 30 and continued in flood to February 10. The stage remained constant from the 4th through the 7th with the highest stage being 18.4 ft., 3.4 ft. above flood stage on the 3d.

The Sandusky River at Fremont, Ohio, continued in light flood from January 29 to February 5. This overflow was due to moderate rain combined with snowmelt and an icejam. There was enough discharge through an ice gorge on February 5 to let the stream recede to within its banks. No property damage was reported, although a park area and several secondary streets in Fremont were covered with water on January 30-31.

An icejam in Cazenovia Creek caused minor flooding in West Seneca, N. Y., on the 2d and 3d. Thirty families were evacuated from their homes the evening of the 2d, as rain followed by snow caused Cazenovia Creek to go into flood at the icejam area. The creek rose 25 to 30 feet above its normal level and 9 inches over its banks in the West Seneca area. Frigid air on the 3d brought a temporary halt to the flooding.

Lake Ontario--Canaseraga Creek at Groveland, N. Y., rose to, but did not exceed, bankfull stage on midnight of the 2d-3d. No damage was reported from the rise.

ATLANTIC SLOPE DRAINAGE

The Hoosic River at Eagle Bridge, N. Y., rose above flood stage on the 4th and continued above flood level to the 18th. The crest on the 4th was 1.7 ft. above flood stage. The high elevation of the river was due to ice.

Moderate rain and snowmelt on the 3d caused light flooding on the Chemung River at Chemung, N. Y., and on the Susquehanna River at Conklin, N. Y. Light overflow occurred on the Tioughnioga River at Whitney Point, N. Y., on the 17th due to an icejam. No damage resulted from the overflows.

The mild weather at the end of January and early February, plus rainfall on the 2d, caused a rapid breakup of the ice on streams in New Jersey. Large areas of ice moved down the Delaware River past Port Jervis, N. Y., by 7:00 a.m. on the 4th, and down into the Delaware Water Gap area where it jammed by late afternoon on the 4th. The icejam extended from the neck of the Delaware Water Gap to 1 mile below Dingmans Ferry, a distance of a little over 20 miles. Backwater effect from this jam resulted in a rise at the Tocks Island gage of almost 9 feet, with flooding in several areas. Backwater effects remained unchanged through February 5 and 6, and fell slowly during the next few days. It rose again during the flood crest on February 11-12 when several streams rose out of their banks. A gradual

fall occurred at Tocks Island on the 13th-16th, with minor fluctuations the remainder of February.

Reservoir storage in three New York City reservoirs increased 37.1 billion gallons during February and averaged about 82% of total usable capacity by the end of the month. Storage in the principal reservoirs in New Jersey increased by 8.6 billion gallons during February. At the end of the month, Wanaque Raymond Dam, Jersey City, and Newark reservoir systems were full and spilling.

Widespread precipitation on the 16th and 17th caused 2 to 4 feet of flooding along the Neuse River and near bankfull to 8 feet of flooding on the Cape Fear River in eastern North Carolina. Fishing Creek in the Tar Basin reached bankfull stage, but did not exceed flood stage at Enfield, N. C. The main stem of the Tar reached near bankfull stage. The Roanoke and Dan Rivers remained well within their banks. No damage was reported from the overflows.

The Rocky River at Norwood, N. C., rose about 5 feet above flood stage on the 18th, before receding within its banks on the 19th. Some secondary roads were inundated, but the damage was light. The Lumber River at Lumberton, N. C., was out of its banks on the 4th-13th and again on the 18th-28th. The crests on the 6th and 26th were 0.9 foot above flood stage. These were well below the crests of August 1969. Minor flooding occurred on the Little Pee Dee River at Galivants Ferry, S. C., on the 9th-10th. The flooding on the Pee Dee River at Cheraw, S. C., was the highest since January 1968. Considerable swampland was flooded, necessitating the removal of cattle and lumbering equipment. Flood damage along the Pee Dee was light. The flooding along the Broad River at Blair, S. C., on the 17th-18th was minor.

EAST GULF OF MEXICO DRAINAGE

The Withlatchoochee River at Croom, Fla., reached bankfull stage, but did not exceed flood stage, on the 16th-18th. At Holder, Fla., the river was out of its banks on the 3d-28th. The crest on the 6th was 0.5 foot above flood stage.

The Apalachicola River at Blountstown, Fla., approached within 0.2 foot of flood stage on the 21st.

MISSISSIPPI SYSTEM

Upper Mississippi Basin--February 1970, like February 1969, was very dry with precipitation amounts averaging well below normal. Precipitation ranged from less than 0.5 inch in Minnesota, southwest and northeast Missouri, and central Illinois to more than 2 inches at Marble Hill, Mo., and Carbondale, Ill. Above Guttenberg, Iowa, the greatest precipitation was concentrated in the Rochester, Minn., area (0.47 inch) and along the south shore of Lake Superior (Gurney, Wisc., 0.84 inch).

The snow cover in the Upper Mississippi Basin at the end of February this year was considerably less than last year. Snow depths on February 28, 1970, compared with that of other years are given in the following table:

GENERAL SUMMARY OF RIVER AND FLOOD CONDITIONS-Continued

FEBRUARY 1970

COMPARATIVE SNOW DEPTHS (INCHES)

| STATION | 1970 | 1969 | 1968 | 1967 | 1966 | 1965 | 1964 | 1963 | 1962 | 1961 | 1960 | 1959 | 1958 | 1957 | 1956 |
|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| (Minnesota) | | | | | | | | | | | | | | | |
| Bemidji | 7 | 29 | 8 | 23 | 18 | 10 | 9 | 4 | 24 | 5 | 5 | 4 | T | 14 | 22 |
| Duluth | 18 | 30 | 7 | 24 | 12 | 21 | 12 | 10 | 23 | 8 | 17 | 9 | 3 | 22 | -- |
| Alexandria | 7 | 29 | 4 | 18 | 1 | 4 | T | 2 | 17 | 0 | 4 | 1 | 0 | 4 | 12 |
| New Ulm | 8 | 19 | T | 10 | T | 3 | T | 2 | 17 | 0 | T | T | 0 | 0 | 6 |
| Minneapolis | 9 | 17 | 1 | 23 | T | 4 | 0 | 3 | 24 | 0 | 2 | 0 | 0 | T | 7 |
| Rochester | 9 | 12 | T | 6 | 0 | 1 | 0 | 3 | 13 | 2 | 3 | 13 | 0 | T | 6 |
| (Wisconsin) | | | | | | | | | | | | | | | |
| Park Falls | 15 | 18 | 4 | 23 | 3 | 20 | 7 | 16 | 33 | 6 | 17 | 10 | 3 | 16 | 20 |
| Wausau | 9 | 13 | 2 | 16 | 0 | 5 | 11 | 7 | 30 | 1 | 5 | 9 | 0 | 1 | 7 |
| Portage | 2 | 8 | T | 5 | T | T | 0 | 6 | 24 | 0 | 4 | 10 | T | 0 | T |

The only flooding in the Upper Mississippi Basin during February occurred along the Big Muddy River at Murphysboro, Ill. The Big Muddy went above flood stage on February 1 and continued above flood stage through February 13, with a crest of 17.4 ft. (flood stage, 16 ft.).

Missouri Basin--Flooding was not approached during February occurred along the Big Muddy River at Murphysboro, Ill. The Big Muddy went above flood stage on February 1 and continued above flood stage through February 13, with a crest of 17.4 ft. (flood stage, 16 ft.).

Temperatures warmed into the 60's and 70's on the 16th, breaking some records over northern Missouri and eastern Kansas. An ice-break occurred on the Missouri on the 23d in southeast Nebraska, causing a flow of ice and associated rise of about 4 feet in the stage to move downstream. Due to melting and river action, ice coverage dropped from nearly 100% in the Nebraska reaches to a near negligible amount as it reached Kansas City, Mo.

General precipitation occurred as snow on the 13th-14th with amounts up to 3 inches in northwestern Missouri. Snow cover at the end of the month totalled 4 inches in northwestern Iowa and southeastern South Dakota, 2 to 3 inches in southwestern Minnesota, and 2 to 6 inches across northern South Dakota, except up to a foot in the mountains of extreme western South Dakota and northeastern Wyoming.

Ohio Basin--The ice gorge that formed on Oil Creek and the Allegheny River around Oil City, Pa., during the latter 3 weeks of January continued into February. Rainfall (0.50-0.75 inch) on the 2d-3d accompanied by mild temperatures produced enough runoff to cause the ice gorges to start moving on the Allegheny River. The ice began moving at East Brady, Pa., about 12:45 a.m. on the 3d; by 2:00 a.m. the ice broke out and was moving from Parker, Pa., downstream to Lock 9, Rimerton, Pa. The stage at Parker rose briefly to 21.5 ft., or 1.5 ft above flood stage, but no important damage occurred. The gorged ice broke out of the Emmenton, Pa., reach and the Oil City reach on the 3d. By the morning of the 5th, an ice run 150 miles in length extended from below Wellsburg, W. Va., to above East Brady, Pa. The ice was generally 3 to 8 inches thick, but a few chunks up to 15 inches were reported. The accompanying water wave with the breakup of ice was not large enough to cause flooding on the lower Allegheny between Lock 9, Rimerton, Pa., and Pittsburgh, Pa. This movement of ice caused a serious gorge to develop on French Creek at Wilson Schute but, even though water covered much of the valley

that was in pasture land, no flooding occurred at Meadville, Pa. This gorge held until about the 25th when a channel developed in the jam. The total damages from the prolonged backwater flooding at Oil City, Pa., were estimated at nearly \$75,000.

Rain and melted snow caused minor flooding on the Coal River at Tornado, W. Va., the Guyandot at Branchland, W. Va., and the Tug Fork at Williamson, W. Va., on the 16th-17th. The Guyandot River at Logan, W. Va., crested 0.5 foot below flood stage, but a culvert which carries Coal Branch under alternate U. S. Route 119 in Deskins Addition, in Logan, became clogged, sending water over the road into business places. Most of the high water problems in the Deskins and Ellis Addition areas were caused by blocked drains. There was some flooding of Island Creek, which flows into the Guyandot River at Logan. Damages in Logan area were estimated by the Corps of Engineers as \$234,000.

Minor flooding occurred on the North Fork Kentucky River at Hazard, Ky., on the 15th. There was snow on the ground in some areas when light rain spread over the basin on the 13th-14th, with the heaviest amounts occurring during the 24-hour period ending at 7:00 a.m. on the 15th. Flood damages were estimated by the Corps of Engineers at \$2,500.

Heavy rain about the middle of the month, plus snowmelt, caused light flooding on the lower Green River in Kentucky. The overflow was mostly confined to farming land.

As the month began, rivers in the White Basin in Indiana were rising toward flood stage from the rainfall (0.75 inch) on January 28-29 and snowmelt runoff. Additional rainfall on February 1-2 added to the runoff, causing crests up to 2.3 feet above flood stage. Some bottom land and a few secondary roads overflowed, mainly on the Muscatuck River from Austin, Ind., downstream and on the lower White River below Spencer, Ind. The Little Wabash River at Wilcox, Ill., crested 4.3 ft. above flood stage on the 3d. Downstream at Carmi, Ill., flood stage was exceeded by 0.2 foot.

Rainfall averaging 2 to 3 inches on the 13th-16th over the Cumberland Basin caused a moderate rise with some flooding at Barbourville, Ky. It crested 2.4 ft. above flood stage at Barbourville on the 16th and 0.5 foot below flood stage at Williamsburg, Ky. Little, if any, damage resulted from this slight overflow.

Some light overflow occurred along the lower Ohio River at Shawneetown, Ill., and Fords Ferry, Ky., between the 20th and 24th.

White Basin--Flooding in the White Basin was confined to the lowlands along the Cache River in eastern Arkansas. The Cache rose above flood stage at Patter-

GENERAL SUMMARY OF RIVER AND FLOOD CONDITIONS-Continued

FEBRUARY 1970

son, Ark., on the 6th and remained above flood stage until the 23d. Only minor damage resulted from the flooding.

Red Basin--Light flooding occurred on the Sulphur River in northeastern Texas during February. There were three rises to above flood stage at Hagansport, Tex., with the highest crest of 45.8 ft. (flood stage, 38 ft.) occurring on the 25th.

WEST GULF OF MEXICO DRAINAGE

Minor flooding occurred on the Calcasieu River at Hineston, La., on the 6th-7th. No damages were reported.

Slight flooding occurred on the Sabine River in northeastern Texas during February.

Sharp rises and minor flooding occurred on the upper Trinity River and its tributaries in Texas during the latter part of February. Some overflow occurred on the East Fork of the Trinity River near Crandall, Tex., Chambers Creek near Corsicana, Tex., and on the Richland Creek near Richland, Tex. This flooding resulted from almost continuous rain in the upper Trinity Basin on the 22d-24th. Rainfall during the 3-day period averaged slightly more than 2 inches. Flooding was confined to lowlands. The damage, if any, was considered to be minor.

Minor flooding occurred along the Navasota River near Easterly, Tex., from the 27th into March. The crest on the 28th was 1.4 ft. above flood stage.

PACIFIC SLOPE DRAINAGE

Sacramento Basin--Agricultural land in bypass areas remained flooded as flow into the bypass systems lasted most of February. Warning stages were reached at most forecast points on the Sacramento River in California during February. Flow over Tisdale Weir continued into March.

Precipitation during the month ranged from 40% to near 60% of the month's normal rainfall. Little snow had accumulated by the end of the month.

San Joaquin Basin--Storm activity during February brought 40% to 60% of the month's normal precipitation to the basin. Minor rises resulted in the lower San Joaquin, but no warning or flood stages were exceeded. Tributary flows were near normal for this time of the year.

Columbia Basin--Flooding occurred on smaller streams in the Spokane, Wash., area on the 16th-17th. The Little Spokane River and Hangman Creek, as well as many smaller creeks, rose rapidly out of their banks. Oldtimers reported the Little Spokane River to be the highest in 30 years.

Heavy precipitation (1.5 to 2 inches) on the 5th-6th caused Johnson Creek in the Portland, Oreg., area to rise within 0.5 foot of bankfull stage on the 6th.

Heavy rainfall (up to 5 inches) on the 13th-18th brought rises to all Willamette tributaries in western Oregon, ranging from slight in the south to substantial in the northern subbasins. The South Yamhill River at Whiteson, Oreg., and the Tualatin River at Farmington, Oreg., crested 0.6 foot below flood stage. The Pudding River at Aurora, Oreg., was out of its banks on the 17th-20th, cresting 2.1 ft. above flood stage on the 18th.

In eastern Oregon, the Deschutes, John Day, Hood, White, Salmon, Wind, Klickitat, and Umatilla Rivers experienced moderate rises, while the Grande Ronde, Powder, and Burnt Rivers reported only slight rises. The flow on the Clearwater River at Spalding, Idaho, increased from 9,000 c.f.s. on the 12th to about 35,000 c.f.s. late on the 17th. This increase in flow, in combination with increased flows from Hell Canyon Reservoir, filled the Little Goose Reservoir downstream from Clarkston, Wash., increasing the flows from the Snake River at Clarkston, from 38,000 c.f.s. on the 12th to 94,000 c.f.s. late on the 17th.

FLOOD STAGE DATA

(All dates in February unless otherwise specified)

FEBRUARY 1970

| River and station | | Flood stage | Above flood stages -dates | | Crest * | |
|------------------------------------|-------------------------------------|-------------|---------------------------|----------|--------------|--------------|
| | | | From-- | To-- | Stage | Date |
| ST. LAWRENCE DRAINAGE | | <i>Ft</i> | | | <i>Ft</i> | |
| <u>Lake Erie</u> | | | | | | |
| St. Marys: | Decatur, Ind. | 15 | Jan. 30 | 10 | 18.4 | 3 |
| Sandusky: | Fremont, Ohio | 10 | Jan. 29 | 5 | 13.3
12.9 | Jan. 30
3 |
| Cazenovia Creek: West Seneca, N.Y. | | D | 2 | 5 | D | |
| <u>Lake Ontario</u> | | | | | | |
| Canaseraga Creek: Groveland, N. Y. | | 11 | 2 | 3 | 11.0 | 2-3 |
| ATLANTIC SLOPE DRAINAGE | | | | | | |
| Hoosic: | Eagle Bridge, N. Y. | 11 | 4 | 18 | 12.7 | 4 |
| Rockaway: | Boonton, N. J. | 5 | 11 | 11 | 5.5 | 11 |
| Wanaque | Wanaque, N. J. | 5 | 11 | 11 | E5.0 | 11 |
| Ramapo | Mahwah, N. J. | 8 | 3
10 | 4
12 | 8.5
8.9 | 3
11 |
| Pompton Lakes, N. J. | | 2 | 11 | 11 | 2.05 | 11 |
| Pompton: | Pompton Plains, N. J. | 12 | 11 | 11 | 12.0 | 11 |
| Passaic: | Chatham, N. J. | 6 | 10 | 10 | 6.1 | 10 |
| | Little Falls, N. J. | 6 | 10 | 15 | 7.6 | 12 |
| Millstone: | Blackwells Mills, N. J. | 7 | 3
11 | 4
11 | 7.7
7.1 | 4
11 |
| Raritan: | Manville, N. J. | 12 | 11 | 11 | 12.2 | 11 |
| | Bound Brook, N. J. | 8 | 10 | 10 | 8.0 | 10 |
| Tioughnioga: | | | | | | |
| | Whitney Point, N. Y. | 12 | 17 | 17 | 13.0 | 17 |
| Chemung: | Chemung, N. Y. | 12 | 3 | 3 | 12.65 | 3 |
| Susquehanna: | | | | | | |
| | Conklin, N. Y. | 11 | 3 | 6 | 13.1 | 4 |
| Fishing Creek: | | | | | | |
| | Enfield, N. C. | 14 | 20 | 20 | 14.0 | 20 |
| Neuse: | Neuse, N. C. | 14 | 17 | 21 | 16.4 | 20 |
| | Smithfield, N. C. | 13 | 5
17 | 5
23 | 13.3
17.1 | 5
19 |
| | Goldsboro, N. C. | 14 | 8
21 | 8
27 | 14.1
16.3 | 8
25-26 |
| Kinston, N. C. | | 14 | 27 | <u>1</u> | 14.4 | 28 |
| Cape Fear | Wm. O. Huske L&D, N.C. | 42 | 18 | 21 | 50.2 | 19 |
| | Lock No. 2,
Elizabethtown, N. C. | 20 | 5
18 | 5
22 | 21.0
27.1 | 5
20 |
| Rocky: | Norwood, N. C. | 15 | 18 | 19 | E20.0 | 18 |
| Lumber: | Lumberton, N. C. | 9 | 4
18 | 13
28 | 9.9
9.9 | 6
26 |
| Little Pee Dee: | | | | | | |
| | Galivants Ferry, S. C. | 9 | 9 | 10 | 9.2 | 9,10 |
| Pee Dee: | Cheraw, S. C. | 30 | 18 | 18 | 31.8 | 18 |
| | Peedee, S. C. | 19 | 20 | 23 | 19.8 | 22 |
| Broad: | Blair, S. C. | 14 | 17 | 18 | 16.3 | 18 |
| EAST GULF OF MEXICO DRAINAGE | | | | | | |
| Withlatchoochee: | | | | | | |
| | Croom, Fla. | 8.5 | 16 | 18 | 8.5 | 16-18 |
| | Holder, Fla. | 8 | 3 | 28 | 8.5 | 6 |
| MISSISSIPPI SYSTEM | | | | | | |
| <u>Upper Mississippi Basin</u> | | | | | | |
| Big Muddy: | Murphysboro, Ill. | 16 | 1 | 13 | 17.4 | 10 |
| <u>Ohio Basin</u> | | | | | | |
| Allegheny: | Parker, Pa. | 20 | 3 | 3 | 21.5 | 3 |
| Coal: | Tornado, W. Va. | 25 | 16 | 16 | 28.0 | 16 |
| Guyandot: | Branchland, W. Va. | 30 | 16 | 17 | 35.1 | 16 |
| Tug Fork: | Williamson, W. Va. | 27 | 16 | 16 | 28.75 | 16 |
| North Fork, Kentucky: | | | | | | |
| | Hazard, Ky. | 20 | 15 | 15 | 20.5 | 15 |
| Green: Lock No. 4, Woodbury, Ky. | | 33 | 16 | 18 | 34.6 | 17 |
| | Lock No. 2, Calhoun, Ky. | 23 | 19 | 20 | 23.0 | 20 |
| Embarrass: | Lawrenceville, Ind. | T15 | 2 | 4 | 15.45 | 3 |
| Muscatactuck: | Austin, Ind. | 16 | 3 | 8 | 17.1 | 3 |

| River and station | Flood stage | Above flood stages -dates | | Crest * | |
|--------------------------------------|-------------|---------------------------|--------------|----------------------|---------------|
| | | From-- | To-- | Stage | Date |
| MISSISSIPPI SYSTEM-cont'd | | Ft. | | Ft. | |
| Ohio Basin - continued | | | | | |
| White: Anderson, Ind. | 10 | Jan. 29 | 1 | 11.7 | Jan. 30 |
| Spencer, Ind. | 14 | Jan. 31 | 2 | 14.65 | |
| Eliston, Ind. | 18 | Jan. 31 | 4 | 19.95 | |
| Edwardsport, Ind. | 15 | Jan. 30 | 6 | 17.3 | 3 |
| Petersburg, Ind. | 16 | 5 | 9 | 17.2 | 6 |
| Hazleton, Ind. | 16 | 6 | 10 | E17.2 | 7 |
| Little Wabash: | | | | | |
| Wilcox, Ill. | 16 | Jan. 29 | 5 | 20.3 | 3 |
| Carmi, Ill. | 27 | 9 | 10 | 27.2 | 16 |
| Cumberland: | | | | | |
| Barbourville, Ky. | 27 | D | D | 29.4 | 16 |
| Ohio | | | | | |
| Shawneetown, Ill. | 33 | 21 | 23 | 33.6 | 22, 23 |
| Dam No. 50, Fords Ferry, Ky. | 34 | 20 | 24 | 35.6 | 23 |
| White Basin | | | | | |
| Cache: Patterson, Ark. | 7 | 6 | 23 | 7.9 | 18 |
| Red Basin | | | | | |
| Sulphur: | | | | | |
| Hagensport, Tex. | 38 | 1
15
24 Mar. | 6
18
8 | 45.5
44.3
45.8 | 4
16
25 |
| Naples, Tex. | 22 | 6 | 12 | 25.0 | 9 |
| WEST GULF OF MEXICO DRAINAGE | | | | | |
| Calcasieu: | | | | | |
| Hineston, La. | 12 | 6 | 7 | 12.8 | 6 |
| Sabine: | | | | | |
| Emory, Tex. | 12 | 25
28 | 27
1 | 12.5
14.3 | 26
4 |
| Mineola, Tex. | 14 | 4
26 | 7
1/ | 14.5
17.0 | 5
28 |
| Trinity: | | | | | |
| Dallas, Tex. | 30 | 25 | 26 | 32.75 | 28 |
| Trinidad, Tex. | 28 | 27 | 28 | | |
| Navasota: | | | | | |
| Easterly (nr.), Tex. | 14 | 27 | 1/ | #15.4 | 28 |
| PACIFIC SLOPE DRAINAGE | | | | | |
| Sacramento Basin | | | | | |
| Yolo Bypass: | | | | | |
| Lisbon, California | W19 | Jan. 15 | 21 | 23.9 | Jan. 25 |
| Sacramento: | | | | | |
| Moulton Weir, Calif. | W76.8 | 1 | 10 | 80.7 | |
| Colusa Weir, Calif. | W61.8 | 1 | 21 | 66.9 | |
| Tisdale Weir, Calif. | W45.5 | 1 | 1 | 49.1 | |
| Fremont Weir, Calif. | W33.5 | 1 | 23 | 37.2 | |
| Rio Vista, Calif. | W 8 | 4
5
6 | 4
5
6 | 8.5
8.5
8.2 | 4
5
6 |
| Columbia Basin | | | | | |
| Pudding: | | | | | |
| Aurora, Oreg. | 20 | 17 | 20 | 22.1 | 18 |
| * Provisional | | | | | |
| # Highest Stage Observed | | | | | |
| 1/ Continued at the end of the month | | | | | |
| D Data not available | | | | | |
| E Estimated | | | | | |
| W Warning Stage | | | | | |

Average monthly values

A. S. V. Y.
100-10

BOULEVARD, N. Y.
04. 48

AMARILLO, TEXAS
644 MB

ANCHORAGE, ALASKA
1-01 AB

ANNETTE, ALASKA
1014 MB

ATHENS, GEORGIA

BARRON, ALASKA

BARTER IS., ALASKA

BETHEL, ALASKA

BISMARCK, N. DAK

BOISE, IDAHO

BRUNSWICK: L.F. & F.X.

BUFFALO, N. Y.

CARF MATTENAS, N

CARIBOU, MAINE

 $\Sigma_{j=0}^{\infty} \tau_j = \tau_0$

Average monthly values

FEBRUARY 1970

| DENVER, COLO.
839 MB | | | | | | | | | | DODGE CITY, KANS.
927 MB | | | | | | | | | | EL PASO, TEXAS
885 MB | | | | | | | | | | ELY, NEV.
811 MB | | | | | | | | | | EMPACME, MEXICO
1016 MB | | | | | | | | | |
|-------------------------|----|--------|-------|-------|----|------|----|--------|-------|-----------------------------|----|------|----|--------|-------|-------|----|------|----|--------------------------|-------|-------|----|------|----|--------|-------|-------|----|---------------------|--|--|--|--|--|--|--|--|--|----------------------------|--|--|--|--|--|--|--|--|--|
| SURFACE | 28 | 1.611 | -2.6 | -8.8 | 20 | 2.4 | 28 | 791 | -1.5 | -0.7 | 29 | 1.7 | 28 | 1,193 | 4.8 | -5.4 | 32 | 7 | 28 | 1,908 | -3.5 | -8.0 | 22 | 2.6 | 28 | 12 | 13.5 | 4.2 | 33 | 1.2 | | | | | | | | | | | | | | | | | | | |
| 1000 | 28 | 1.92 | | | | | 28 | 795 | | | | 1.7 | 28 | 1,177 | | | | | 28 | 223 | | | | 2.6 | 28 | 148 | 18.0 | 3.7 | 34 | 2.7 | | | | | | | | | | | | | | | | | | | |
| 950 | 28 | 1.908 | | | | | 28 | 795 | | | | 1.7 | 28 | 1,177 | | | | | 28 | 223 | | | | 2.6 | 28 | 148 | 18.0 | 3.7 | 34 | 2.7 | | | | | | | | | | | | | | | | | | | |
| 900 | 28 | 1.064 | | | | | 28 | 1,030 | 3.0 | -5.9 | 29 | 4.2 | 28 | 1,050 | | | | | 28 | 1,079 | | | | 2.6 | 28 | 1,049 | 15.5 | -1.5 | 35 | 1.2 | | | | | | | | | | | | | | | | | | | |
| 850 | 28 | 1.504 | | | | | 28 | 1,494 | 2.9 | -8.6 | 32 | 5.6 | 28 | 1,521 | 7.0 | -5.0 | 30 | 1.4 | 28 | 1,537 | | | | 1.5 | 28 | 1,531 | 12.4 | -4.5 | 19 | 1.2 | | | | | | | | | | | | | | | | | | | |
| 800 | 28 | 1.990 | 1.4 | -11.2 | 26 | 3.4 | 28 | 1,984 | 1.4 | -11.6 | 32 | 6.4 | 28 | 2,017 | 4.8 | -7.3 | 29 | 3.5 | 28 | 2,021 | -1.6 | -6.0 | 22 | 1.5 | 28 | 2,037 | 9.5 | -7.8 | 20 | 2.7 | | | | | | | | | | | | | | | | | | | |
| 750 | 28 | 2.508 | -1.2 | -14.6 | 29 | 5.6 | 28 | 2,501 | -1.4 | -14.6 | 32 | 7.4 | 28 | 2,540 | 2.2 | -10.0 | 28 | 3.4 | 28 | 2,539 | -1.2 | -9.0 | 25 | 1.1 | 27 | 2,568 | 6.6 | -10.2 | 22 | 2.3 | | | | | | | | | | | | | | | | | | | |
| 700 | 28 | 3.015 | -1.1 | -17.1 | 31 | 7.4 | 28 | 3,015 | -1.1 | -17.1 | 31 | 9.4 | 28 | 3,096 | -7.7 | -14.1 | 28 | 5.0 | 28 | 3,085 | -4.7 | -12.7 | 3 | 1.2 | 27 | 3,132 | 3.2 | -13.9 | 4 | 4.4 | | | | | | | | | | | | | | | | | | | |
| 650 | 28 | 3.632 | -0.8 | -20.1 | 31 | 9.4 | 28 | 3,626 | -0.6 | -21.5 | 31 | 9.5 | 28 | 3,689 | -1.7 | -17.3 | 29 | 5.0 | 28 | 3,689 | -1.7 | -17.3 | 29 | 4.1 | 27 | 3,729 | -19.0 | 6.7 | 28 | 8.0 | | | | | | | | | | | | | | | | | | | |
| 600 | 28 | 4.249 | -12.8 | -23.9 | 31 | 10.8 | 28 | 4,244 | -12.6 | -26.0 | 30 | 12.2 | 28 | 4,313 | -7.7 | -21.8 | 27 | 7.2 | 28 | 4,283 | -11.7 | -21.9 | 29 | 5.2 | 27 | 4,305 | -3.8 | -22.4 | 24 | 8.0 | | | | | | | | | | | | | | | | | | | |
| 550 | 28 | 4.907 | -17.4 | -29.1 | 31 | 12.1 | 28 | 4,900 | -17.1 | -29.6 | 29 | 13.8 | 28 | 4,980 | -11.9 | -26.9 | 27 | 10.1 | 28 | 4,937 | -16.0 | -25.8 | 29 | 6.9 | 27 | 5,001 | -8.2 | -25.8 | 26 | 10.3 | | | | | | | | | | | | | | | | | | | |
| 500 | 28 | 5.616 | -22.3 | -34.3 | 30 | 13.2 | 28 | 5,612 | -21.3 | -34.7 | 29 | 16.3 | 28 | 5,709 | -17.0 | -29.3 | 27 | 12.0 | 28 | 5,658 | -20.8 | -30.4 | 24 | 7.9 | 27 | 5,736 | -13.4 | -30.6 | 26 | 17.5 | | | | | | | | | | | | | | | | | | | |
| 450 | 28 | 6.378 | -28.1 | -38.8 | 30 | 14.0 | 28 | 6,378 | -28.5 | -38.8 | 29 | 18.6 | 28 | 6,486 | -22.5 | -33.8 | 27 | 13.8 | 28 | 6,411 | -26.4 | -35.9 | 28 | 8.9 | 27 | 6,508 | -19.2 | -35.1 | 26 | 14.4 | | | | | | | | | | | | | | | | | | | |
| 400 | 28 | 7.217 | -34.1 | -43.7 | 29 | 16.3 | 28 | 7,224 | -34.3 | -43.6 | 28 | 22.2 | 28 | 7,346 | -36.3 | -46.3 | 27 | 16.3 | 28 | 7,271 | -39.3 | -46.1 | 28 | 9.5 | 27 | 7,437 | -30.2 | -46.2 | 26 | 19.6 | | | | | | | | | | | | | | | | | | | |
| 350 | 28 | 8.140 | -40.5 | -47.7 | 29 | 19.3 | 28 | 8,151 | -39.3 | -47.1 | 29 | 25.2 | 28 | 8,292 | -35.3 | -46.1 | 27 | 20.7 | 28 | 8,200 | -39.2 | -45.5 | 28 | 11.9 | 27 | 8,393 | -32.8 | -45.3 | 26 | 19.6 | | | | | | | | | | | | | | | | | | | |
| 300 | 28 | 9.173 | -46.0 | | 29 | 22.4 | 28 | 9,190 | -46.8 | | 28 | 29.5 | 28 | 9,350 | -42.6 | -48.4 | 27 | 25.3 | 28 | 9,239 | -46.7 | | 28 | 15.5 | 27 | 9,400 | -40.5 | -48.2 | 26 | 25.5 | | | | | | | | | | | | | | | | | | | |
| 250 | 27 | 10.353 | -54.1 | | 28 | 26.1 | 28 | 10,378 | -54.1 | | 28 | 32.2 | 28 | 10,560 | -50.4 | | 27 | 32.6 | 27 | 10,423 | -54.6 | | 28 | 17.8 | 27 | 10,682 | -48.3 | | 26 | 32.8 | | | | | | | | | | | | | | | | | | | |
| 200 | 27 | 11.753 | -59.4 | | 29 | 29.5 | 27 | 11,794 | -59.0 | | 28 | 36.2 | 28 | 11,992 | -57.2 | | 27 | 34.8 | 27 | 11,831 | -60.0 | | 28 | 22.7 | 27 | 12,124 | -55.8 | | 26 | 36.3 | | | | | | | | | | | | | | | | | | | |
| 175 | 27 | 12.536 | -59.7 | | 28 | 29.5 | 26 | 12,631 | -59.1 | | 28 | 34.0 | 28 | 12,632 | -59.4 | | 27 | 36.5 | 27 | 12,665 | -59.0 | | 28 | 24.8 | 27 | 12,967 | -58.5 | | 27 | 34.3 | | | | | | | | | | | | | | | | | | | |
| 150 | 26 | 13.552 | -59.0 | | 27 | 27.6 | 26 | 13,597 | -59.4 | | 28 | 32.8 | 28 | 13,794 | -60.9 | | 27 | 32.7 | 27 | 13,630 | -59.1 | | 28 | 21.4 | 26 | 13,925 | -62.1 | | 26 | 32.7 | | | | | | | | | | | | | | | | | | | |
| 125 | 27 | 14.533 | -60.5 | | 28 | 25.6 | 26 | 14,734 | -61.2 | | 28 | 29.2 | 28 | 14,918 | -64.6 | | 27 | 28.3 | 27 | 14,771 | -60.5 | | 28 | 20.6 | 25 | 15,004 | -60.9 | | 26 | 27.1 | | | | | | | | | | | | | | | | | | | |
| 100 | 27 | 16.73 | -62.8 | | 29 | 21.5 | 26 | 16,710 | -63.3 | | 28 | 24.0 | 28 | 16,267 | -68.5 | | 27 | 24.7 | 26 | 16,152 | -63.1 | | 28 | 16.5 | 25 | 16,383 | -70.0 | | 27 | 22.4 | | | | | | | | | | | | | | | | | | | |
| 80 | 27 | 17.445 | -63.2 | | 29 | 15.8 | 26 | 17,476 | -64.8 | | 28 | 18.8 | 28 | 17,596 | -70.1 | | 27 | 18.9 | 25 | 17,524 | -63.3 | | 28 | 13.2 | 24 | 17,700 | -71.9 | | 27 | 25.5 | | | | | | | | | | | | | | | | | | | |
| 70 | 27 | 18.265 | -64.4 | | 29 | 12.8 | 26 | 18,292 | -64.2 | | 28 | 15.4 | 28 | 18,390 | -69.4 | | 28 | 15.4 | 25 | 18,345 | -63.4 | | 29 | 10.6 | 24 | 18,467 | -70.4 | | 27 | 27.2 | | | | | | | | | | | | | | | | | | | |
| 60 | 27 | 19.214 | -62.3 | | 29 | 10.0 | 25 | 19,236 | -64.0 | | 28 | 12.2 | 28 | 19,315 | -66.7 | | 28 | 11.1 | 25 | 19,293 | -62.9 | | 29 | 8.6 | 24 | 19,410 | -67.2 | | 27 | 27.2 | | | | | | | | | | | | | | | | | | | |
| 50 | 27 | 20.339 | -61.9 | | 29 | 7.8 | 25 | 20,359 | -61.9 | | 28 | 10.9 | 28 | 20,420 | -69.7 | | 28 | 9.9 | 25 | 20,402 | -61.6 | | 29 | 6.9 | 24 | 20,497 | -68.7 | | 27 | 26.1 | | | | | | | | | | | | | | | | | | | |
| 40 | 27 | 21.721 | -61.4 | | 29 | 7.4 | 24 | 21,738 | -61.6 | | 29 | 8.6 | 27 | 21,790 | -66.9 | | 29 | 7.9 | 24 | 21,804 | -60.9 | | 31 | 6.3 | 23 | 21,887 | -61.5 | | 28 | 6.7 | | | | | | | | | | | | | | | | | | | |
| 30 | 26 | 23.578 | -60.5 | | 30 | 8.2 | 23 | 23,525 | -59.8 | | 29 | 9.2 | 26 | 23,587 | -59.2 | | 48 | 8.0 | 24 | 23,596 | -60.1 | | 31 | 5.8 | 20 | 23,692 | -57.2 | | 27 | 9.4 | | | | | | | | | | | | | | | | | | | |
| 25 | 26 | 24.653 | -58.6 | | 30 | 8.4 | 18 | 24,652 | -58.5 | | 29 | 10.3 | 26 | 24,729 | -57.0 | | 28 | 10.7 | 24 | 24,736 | -59.2 | | 30 | 6.2 | 18 | 24,850 | -55.0 | | 28 | 12.3 | | | | | | | | | | | | | | | | | | | |
| 20 | 26 | 26.058 | -58.2 | | 29 | 9.2 | 15 | 26,068 | -58.2 | | 27 | 13.9 | 25 | 26,153 | -54.0 | | 27 | 14.2 | 23 | 26,136 | -57.2 | | 30 | 8.9 | 16 | 26,289 | -51.1 | | 27 | 15.7 | | | | | | | | | | | | | | | | | | | |
| 15 | 27 | 27.600 | -35.5 | | 28 | 12.6 | 15 | 27,603 | -35.5 | | 27 | 20.3 | 23 | 27,678 | -42.3 | | 27 | 22.2 | 22 | 27,659 | -42.3 | | 28 | 13.1 | 14 | 28,167 | -47.3 | | | | | | | | | | | | | | | | | | | | | | |
| 10 | 27 | 30.682 | -30.1 | | 28 | | 8 | 30,603 | -34.1 | | 27 | 22.3 | 13 | 31,008 | -42.3 | | | | | 9,049 | -51.7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| * FAIRBANKS, ALASKA
993 MB | | | | | | | | | | FLINT, MICH.
989 MB | | | | | | | | | | FORT WORTH, TEXAS
1000 MB | | | | | | | | | | GLASGOW, MONT.
937 MB | | | | | | | | | | GRAND JUNCTION, COLOR.
856 MB | | | | | | | | | |
|-------------------------------|----|-------|-------|-------|----|------|-------|-------|-------|------------------------|----|------|----|-------|-------|-------|----|------|----|------------------------------|-------|-------|----|------|----|-------|-------|-------|----|--------------------------|--|--|--|--|--|--|--|--|--|----------------------------------|--|--|--|--|--|--|--|--|--|
| SURFACE | 28 | 135 | -15.0 | -21.8 | 01 | 1.8 | 28 | 238 | -6.3 | -10.6 | 25 | 2.1 | 28 | 180 | 6.1 | 1.1 | 33 | 7.2 | 28 | 696 | -9.8 | -12.8 | 36 | 8 | 28 | 1472 | 1.1 | -8.6 | 12 | 2.5 | | | | | | | | | | | | | | | | | | | |
| 1000 | 28 | 82 | | | | | 28 | 144 | | | | | 28 | 175 | | | 35 | 1.4 | 25 | 187 | | | 28 | 233 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 950 | 28 | 479 | -9.3 | -16.3 | 08 | 3.0 | 28 | 539 | -7.6 | -12.8 | 27 | 7.2 | 28 | 598 | 6.8 | 0.25 | 33 | 3.0 | 28 | 585 | | | 28 | 503 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 900 | 28 | 895 | -7.7 | -14.2 | 12 | 4.7 | 28 | 964 | -9.1 | -14.6 | 29 | 9.7 | 28 | 1041 | 7.2 | -1.9 | 27 | 4.3 | 28 | 1008 | -4.3 | -10.0 | 30 | 5.0 | 28 | 1063 | | | | | | | | | | | | | | | | | | | | | | | |
| 850 | 28 | 1341 | -6.3 | -13.5 | 15 | 5.2 | 28 | 1405 | -10.1 | -16.5 | 29 | 11.1 | 28 | 1511 | 6.0 | -6.7 | 28 | 5.2 | 28 | 1460 | -3.8 | -11.5 | 31 | 9.2 | 28 | 1526 | | | | | | | | | | | | | | | | | | | | | | | |
| 800 | 28 | 1814 | -7.8 | -15.7 | 14 | 5.8 | 28 | 1873 | -10.5 | -18.8 | 28 | 12.5 | 28 | 2005 | 3.4 | -6.9 | 24 | 5.8 | 28 | 1938 | -5.1 | -13.5 | 31 | 11.1 | 28 | 2015 | 1.6 | -7.5 | 31 | | | | | | | | | | | | | | | | | | | | |
| 750 | 28 | 2313 | -10.2 | -18.7 | 14 | 6.4 | 28 | 2384 | -12.5 | -21.0 | 28 | 13.5 | 28 | 2528 | 1.1 | -10.7 | 28 | 6.3 | 28 | 2444 | -7.5 | -13.8 | 31 | 13.4 | 28 | 2534 | -1.5 | -11.4 | 28 | | | | | | | | | | | | | | | | | | | | |
| 700 | 28 | 2842 | -13.6 | -21.2 | 19 | 7.1 | 28 | 2893 | -14.5 | -23.9 | 28 | 14.8 | 28 | 3079 | -9.1 | -12.3 | 28 | 8.2 | 28 | 2978 | -10.0 | -18.7 | 31 | 16.2 | 28 | 3079 | -7.1 | -14.0 | 28 | | | | | | | | | | | | | | | | | | | | |
| 650 | 28 | 3401 | -17.0 | -24.2 | 20 | 8.2 | 28 | 3450 | -16.8 | -26.9 | 29 | 17.4 | 28 | 3663 | -9.4 | -15.8 | 28 | 10.2 | 28 | 3544 | -13.1 | -21.8 | 31 | 17.8 | 28 | 3655 | -8.9 | -17.1 | 28 | | | | | | | | | | | | | | | | | | | | |
| 600 | 28 | 3999 | -20.4 | -27.4 | 21 | 8.4 | 28 | 4050 | -19.8 | -29.8 | 28 | 19.5 | 28 | 4289 | -5.0 | -20.5 | 28 | 12.4 | 28 | 4153 | -16.6 | -24.9 | 31 | 19.0 | 28 | 4274 | -12.7 | -22.0 | 27 | | | | | | | | | | | | | | | | | | | | |
| 550 | 28 | 4636 | -24.5 | -31.4 | 22 | 9.7 | 28 | 4686 | -23.4 | -33.3 | 28 | 22.1 | 28 | 4955 | -11.2 | -25.5 | 28 | 14.5 | 28 | 4796 | -21.1 | -28.7 | 31 | 19.9 | 28 | 4930 | -16.9 | -27.3 | 28 | | | | | | | | | | | | | | | | | | | | |
| 500 | 28 | 5326 | -29.0 | -36.7 | 22 | 10.7 | 28 | 5333 | -28.1 | -37.2 | 28 | 23.9 | 28 | 5679 | -17.7 | -30.1 | 28 | 16.2 | 28 | 5497 | -26.0 | -33.5 | 31 | 21.1 | 28 | 5642 | -21.8 | -32.3 | 28 | | | | | | | | | | | | | | | | | | | | |
| 450 | 28 | 6067 | -34.5 | -42.5 | 22 | 11.5 | 28 | 6075 | -33.3 | -44.1 | 28 | 25.5 | 28 | 6344 | -24.6 | -34.7 | 28 | 17.3 | 28 | 6244 | -34.9 | -43.1 | 31 | 23.1 | 28 | 6407 | -27.0 | -38.0 | 28 | | | | | | | | | | | | | | | | | | | | |
| 400 | 28 | 6885 | -40.7 | -43.7 | 23 | 12.8 | 28 | 6950 | -39.0 | -44.5 | 28 | 28.4 | 28 | 7311 | -22.4 | -39.9 | 28 | 19.7 | 28 | 7075 | -37.3 | -45.6 | 31 | 25.7 | 28 | 7250 | -32.7 | -43.0 | 28 | | | | | | | | | | | | | | | | | | | | |
| 350 | 27 | 7782 | -46.5 | | 23 | 13.9 | 28 | 7855 | -44.7 | | 28 | 32.2 | 28 | 8252 | -36.0 | -44.6 | 28 | 21.8 | 28 | 7980 | -43.8 | -50.1 | 31 | 27.5 | 28 | 8177 | -39.1 | -47.8 | 28 | | | | | | | | | | | | | | | | | | | | |
| 300 | 27 | 8785 | -54.5 | | 23 | 14.8 | 28 | 8873 | -51.0 | | 28 | 33.8 | 28 | 9306 | -43.6 | | 28 | 28.6 | 28 | 9000 | -50.9 | | 31 | 30.0 | 28 | 9217 | -46.5 | | 28 | | | | | | | | | | | | | | | | | | | | |
| 250 | 27 | 9799 | -58.8 | | 23 | 16.4 | 28 | 10046 | -55.4 | | 28 | 35.1 | 28 | 10511 | -51.0 | | 28 | 33.7 | 28 | 10173 | -57.7 | | 31 | 31.5 | 28 | 10405 | -54.6 | | 28 | | | | | | | | | | | | | | | | | | | | |
| 200 | 27 | 11348 | -56.2 | | 23 | 13.0 | 28 | 11486 | -55.5 | | 28 | 34.9 | 27 | 11943 | -56.6 | | 28 | 37.8 | 27 | 11574 | -59.8 | | 31 | 26.9 | 28 | 11812 | -59.2 | | 28 | | | | | | | | | | | | | | | | | | | | |
| 175 | 27 | 12199 | -54.1 | | 23 | 11.4 | 28 | 12320 | -54.3 | | 27 | 33.3 | 28 | 12785 | -54.7 | | 28 | 36.3 | 27 | 12449 | -58.3 | | 31 | 24.9 | 28 | 12849 | -59.0 | | 28 | | | | | | | | | | | | | | | | | | | | |
| 150 | 27 | 13191 | -52.6 | | 23 | 9.8 | 28 | 13307 | -54.8 | | 28 | 30.8 | 28 | 13752 | -59.7 | | 28 | 33.4 | 27 | 13336 | -56.1 | | 31 | 23.8 | 28 | 13616 | -58.8 | | 28 | | | | | | | | | | | | | | | | | | | | |
| 125 | 27 | 14371 | -51.8 | | 23 | 8.4 | 28 | 14471 | -55.9 | | 27 | 27.6 | 28 | 14883 | -62.9 | | 28 | 31.0 | 27 | 14554 | -56.5 | | 30 | 21.2 | 27 | 14751 | -60.4 | | 28 | | | | | | | | | | | | | | | | | | | | |
| 100 | 27 | 15817 | -51.7 | | 23 | 7.0 | 27 | 15881 | -57.3 | | 27 | 23.7 | 25 | 16246 | -66.9 | | 27 | 25.4 | 27 | 15957 | -57.8 | | 31 | 19.0 | 27 | 16133 | -62.9 | | 28 | | | | | | | | | | | | | | | | | | | | |
| 90 | 25 | 17268 | -52.0 | | 24 | 5.7 | 27 | 17286 | -58.9 | | 27 | 21.7 | 25 | 17586 | -68.5 | | 27 | 21.5 | 27 | 17362 | -58.2 | | 31 | 16.7 | 27 | 17500 | -64.3 | | 28 | | | | | | | | | | | | | | | | | | | | |
| 80 | 25 | 18132 | -52.0 | | 24 | 5.0 | 27 | 18132 | -58.9 | | 27 | 18.7 | 25 | 18525 | -58.8 | | 27 | 18.5 | 27 | 18333 | -64.3 | | 31 | 14.6 | 27 | 18433 | -64.3 | | 28 | | | | | | | | | | | | | | | | | | | | |
| 70 | 24 | 19120 | -52.0 | | 24 | 4.4 | 27 | 19093 | -58.8 | | 27 | 15.8 | 23 | 19321 | -66.0 | | 27 | 12.6 | 27 | 19172 | -58.2 | | 31 | 13.0 | 27 | 19263 | -62.7 | | 28 | | | | | | | | | | | | | | | | | | | | |
| 60 | 22 | 20293 | -52.5 | | 23 | 3.9 | 25 | 20239 | -58.8 | | 27 | 13.8 | 23 | 20635 | -63.2 | | 28 | 10.5 | 27 | 20316 | -59.0 | | 30 | 12.6 | 26 | 20389 | -61.9 | | 28 | | | | | | | | | | | | | | | | | | | | |
| 50 | 22 | 21722 | -53.5 | | 25 | 4.4 | 25 | 21639 | -59.3 | | 28 | 12.3 | 23 | 21812 | -61.5 | | 28 | 7.8 | 26 | 21721 | -59.0 | | 31 | 11.1 | 24 | 21771 | -61.3 | | 28 | | | | | | | | | | | | | | | | | | | | |
| 40 | 23 | 23550 | -55.6 | | 24 | 4.5 | 25 | 23442 | -58.5 | | 27 | 13.2 | 18 | 23607 | -58.7 | | 27 | 10.1 | 26 | 23593 | -59.2 | | 31 | 10.0 | 21 | 23573 | -59.9 | | 28 | | | | | | | | | | | | | | | | | | | | |
| 30 | 24 | 24993 | -57.4 | | 27 | 5.0 | 27 | 24907 | -58.9 | | 27 | 11.8 | 17 | 25094 | -58.6 | | 28 | 12.1 | 24 | 24993 | -59.7 | | 31 | 14.4 | 20 | 24993 | -59.7 | | 28 | | | | | | | | | | | | | | | | | | | | |
| 20 | 17 | 26730 | -58.9 | | 32 | 3.2 | 22 | 26679 | -56.5 | | 27 | 7.7 | 12 | 26720 | -59.0 | | 28 | 10.3 | 20 | 26066 | -58.8 | | 30 | 10.4 | 16 | 26127 | -58.0 | | 28 | | | | | | | | | | | | | | | | | | | | |
| 15 | 13 | 27922 | -61.4 | | 37 | 2.9 | 17 | 27852 | -53.0 | | 27 | 16.4 | 12 | 28081 | -48.3 | | 27 | 21.3 | 17 | 27873 | -57.8 | | 30 | 12.8 | 11 | 27878 | -54.9 | | 28 | | | | | | | | | | | | | | | | | | | | |
| 10 | 7 | 30387 | -63.1 | | 5 | 3 | 30411 | -49.0 | | | | | | | | | | | | 30384 | -56.9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

RAWINSONDE DATA

Average monthly values

FEBRUARY 1970

| GREAT FALLS, MONT.
892 MB | | | | | | | | | | GREEN BAY, WIS.
992 MB | | | | | | | | | | GREENSBORO, N. C.
986 MB | | | | | | | | | | GUAM, MARIANA IS.
1000 MB | | | | | | | | | | HILLO, HAWAII
1016 MB | | | | | | | | | |
|-----------------------------------|----|---------------------|----|----------------|----|-------------|----|-----------|----|---------------------------|----|-------|----|---------------------|----|----------------|----|-------------|----|-----------------------------|----|-----------|----|-------|----|---------------------|----|----------------|----|------------------------------|----|-----------|----|-----------|----|-------|------|---------------------|------|--------------------------|-----|-------------|--|-----------|--|-----------|--|-------|--|
| Standard pressure
surface (mb) | | No. of observations | | Dynamic height | | Temperature | | Dew Point | | Direction | | Speed | | No. of observations | | Dynamic height | | Temperature | | Dew Point | | Direction | | Speed | | No. of observations | | Dynamic height | | Temperature | | Dew Point | | Direction | | Speed | | No. of observations | | Dynamic height | | Temperature | | Dew Point | | Direction | | Speed | |
| SURFACE | 28 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 28 | 11 | 210 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 28 | 11 | 111 | 11 | 24.7 | 11 | 22.1 | 11 | 4.5 | 28 | 11 | 18.6 | 11 | 13.5 | 25 | 1.7 | | | | | | | | |
| 1000 | 28 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 28 | 11 | 210 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 28 | 11 | 111 | 11 | 24.7 | 11 | 22.1 | 11 | 4.5 | 28 | 11 | 18.6 | 11 | 13.5 | 25 | 1.7 | | | | | | | | |
| 950 | 28 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 28 | 11 | 210 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 28 | 11 | 111 | 11 | 24.7 | 11 | 22.1 | 11 | 4.5 | 28 | 11 | 18.6 | 11 | 13.5 | 25 | 1.7 | | | | | | | | |
| 900 | 28 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 28 | 11 | 210 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 28 | 11 | 111 | 11 | 24.7 | 11 | 22.1 | 11 | 4.5 | 28 | 11 | 18.6 | 11 | 13.5 | 25 | 1.7 | | | | | | | | |
| 850 | 28 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 28 | 11 | 210 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 28 | 11 | 111 | 11 | 24.7 | 11 | 22.1 | 11 | 4.5 | 28 | 11 | 18.6 | 11 | 13.5 | 25 | 1.7 | | | | | | | | |
| 800 | 28 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 28 | 11 | 210 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 28 | 11 | 111 | 11 | 24.7 | 11 | 22.1 | 11 | 4.5 | 28 | 11 | 18.6 | 11 | 13.5 | 25 | 1.7 | | | | | | | | |
| 750 | 28 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 28 | 11 | 210 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 28 | 11 | 111 | 11 | 24.7 | 11 | 22.1 | 11 | 4.5 | 28 | 11 | 18.6 | 11 | 13.5 | 25 | 1.7 | | | | | | | | |
| 700 | 28 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 28 | 11 | 210 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 28 | 11 | 111 | 11 | 24.7 | 11 | 22.1 | 11 | 4.5 | 28 | 11 | 18.6 | 11 | 13.5 | 25 | 1.7 | | | | | | | | |
| 650 | 28 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 28 | 11 | 210 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 28 | 11 | 111 | 11 | 24.7 | 11 | 22.1 | 11 | 4.5 | 28 | 11 | 18.6 | 11 | 13.5 | 25 | 1.7 | | | | | | | | |
| 600 | 28 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 28 | 11 | 210 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 28 | 11 | 111 | 11 | 24.7 | 11 | 22.1 | 11 | 4.5 | 28 | 11 | 18.6 | 11 | 13.5 | 25 | 1.7 | | | | | | | | |
| 550 | 28 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 28 | 11 | 210 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 28 | 11 | 111 | 11 | 24.7 | 11 | 22.1 | 11 | 4.5 | 28 | 11 | 18.6 | 11 | 13.5 | 25 | 1.7 | | | | | | | | |
| 500 | 28 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 28 | 11 | 210 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 28 | 11 | 111 | 11 | 24.7 | 11 | 22.1 | 11 | 4.5 | 28 | 11 | 18.6 | 11 | 13.5 | 25 | 1.7 | | | | | | | | |
| 450 | 28 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 28 | 11 | 210 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 28 | 11 | 111 | 11 | 24.7 | 11 | 22.1 | 11 | 4.5 | 28 | 11 | 18.6 | 11 | 13.5 | 25 | 1.7 | | | | | | | | |
| 400 | 28 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 28 | 11 | 210 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 28 | 11 | 111 | 11 | 24.7 | 11 | 22.1 | 11 | 4.5 | 28 | 11 | 18.6 | 11 | 13.5 | 25 | 1.7 | | | | | | | | |
| 350 | 28 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 28 | 11 | 210 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 28 | 11 | 111 | 11 | 24.7 | 11 | 22.1 | 11 | 4.5 | 28 | 11 | 18.6 | 11 | 13.5 | 25 | 1.7 | | | | | | | | |
| 300 | 28 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 28 | 11 | 210 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 28 | 11 | 111 | 11 | 24.7 | 11 | 22.1 | 11 | 4.5 | 28 | 11 | 18.6 | 11 | 13.5 | 25 | 1.7 | | | | | | | | |
| 250 | 28 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 28 | 11 | 210 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 28 | 11 | 111 | 11 | 24.7 | 11 | 22.1 | 11 | 4.5 | 28 | 11 | 18.6 | 11 | 13.5 | 25 | 1.7 | | | | | | | | |
| 200 | 28 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 28 | 11 | 210 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 28 | 11 | 111 | 11 | 24.7 | 11 | 22.1 | 11 | 4.5 | 28 | 11 | 18.6 | 11 | 13.5 | 25 | 1.7 | | | | | | | | |
| 150 | 28 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 28 | 11 | 210 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 28 | 11 | 111 | 11 | 24.7 | 11 | 22.1 | 11 | 4.5 | 28 | 11 | 18.6 | 11 | 13.5 | 25 | 1.7 | | | | | | | | |
| 100 | 28 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 28 | 11 | 210 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 28 | 11 | 111 | 11 | 24.7 | 11 | 22.1 | 11 | 4.5 | 28 | 11 | 18.6 | 11 | 13.5 | 25 | 1.7 | | | | | | | | |
| 50 | 28 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 28 | 11 | 210 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 28 | 11 | 111 | 11 | 24.7 | 11 | 22.1 | 11 | 4.5 | 28 | 11 | 18.6 | 11 | 13.5 | 25 | 1.7 | | | | | | | | |
| 0 | 28 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 28 | 11 | 210 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 28 | 11 | 111 | 11 | 24.7 | 11 | 22.1 | 11 | 4.5 | 28 | 11 | 18.6 | 11 | 13.5 | 25 | 1.7 | | | | | | | | |

See reference file at end of table

RAWINSONDE DATA

Average monthly values

FEBRUARY 1970

| LANDER, WYO.
830 MB | | | | | | | | | | LITTLE ROCK, ARK.
1012 MB | | | | | | | | | | MCCARTHY, ALASKA
994 MB | | | | | | | | | | HARRIS, MASSACHUSETTS
1010 MB | | | | | | | | | |
|------------------------|--|--|--|--|--|--|--|--|--|------------------------------|--|--|--|--|--|--|--|--|--|----------------------------|--|--|--|--|--|--|--|--|--|----------------------------------|--|--|--|--|--|--|--|--|--|
| Residual
Wind | | | | | | | | | | Residual
Wind | | | | | | | | | | Residual
Wind | | | | | | | | | | Residual
Wind | | | | | | | | | |
| No of observations | | | | | | | | | | No of observations | | | | | | | | | | No of observations | | | | | | | | | | No of observations | | | | | | | | | |
| Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | |
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| No of observations | | | | | | | | | | No of observations | | | | | | | | | | No of observations | | | | | | | | | | No of observations | | | | | | | | | |
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| No of observations | | | | | | | | | | No of observations | | | | | | | | | | No of observations | | | | | | | | | | No of observations | | | | | | | | | |
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| MEDFORD, OREG.
974 MB | | | | | | | | | | MERIDA, MEXICO
1017 MB | | | | | | | | | | MIAMI, FLA.
1020 MB | | | | | | | | | | MONTERREY, MEXICO
966 MB | | | | | | | | | | MONTGOMERY, ALA.
1016 MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------|----|-----|------|-------|---|----|----|------|------|---------------------------|-----|----|---|------|------|----|-----|----|-----|------------------------|-----|----|-----|----|----|-----|-------|----|----|-----------------------------|-------|----|-----|-----|--------|-----|----|-----|-----|-----------------------------|-----|----|-----|-----|--------|-----|----|-----|-----|--------|-----|----|-----|-----|--------|-----|----|-----|-----|--------|-----|----|-----|-----|--------|-----|----|-----|-----|--------|-----|----|-----|-----|--------|-----|----|-----|-----|--------|-----|----|-----|-----|--------|-----|----|-----|-----|--------|-----|----|-----|-----|--------|-----|----|-----|-----|--------|-----|----|-----|-----|--------|-----|----|-----|-----|--------|-----|----|-----|-----|--------|-----|----|-----|-----|--------|-----|----|-----|-----|--------|-----|----|-----|-----|--------|-----|----|-----|-----|--------|-----|----|-----|-----|--------|-----|----|-----|-----|--------|-----|----|-----|-----|--------|-----|----|-----|-----|--------|-----|----|-----|-----|--------|-----|----|-----|-----|--------|-----|----|-----|-----|--------|-----|----|-----|-----|--------|-----|----|-----|-----|--------|-----|----|-----|-----|--------|-----|----|-----|-----|--------|-----|----|-----|-----|--------|-----|----|-----|-----|--------|-----|----|-----|-----|--------|-----|----|-----|-----|--------|-----|----|-----|-----|--------|-----|----|-----|-----|--------|-----|----|-----|-----|--------|-----|----|-----|-----|--------|-----|----|-----|-----|--------|-----|----|-----|-----|--------|-----|----|-----|-----|--------|-----|----|-----|-----|--------|-----|----|-----|-----|--------|-----|----|-----|-----|--------|-----|----|-----|-----|--------|-----|----|-----|-----|--------|-----|----|-----|-----|--------|-----|----|-----|-----|--------|-----|----|-----|-----|--------|-----|----|-----|-----|--------|-----|----|-----|-----|--------|-----|----|-----|-----|--------|-----|----|-----|-----|--------|-----|----|-----|-----|--------|-----|----|-----|-----|--------|-----|----|-----|-----|--------|-----|----|-----|-----|--------|-----|----|-----|-----|--------|-----|----|-----|-----|--------|-----|----|-----|-----|--------|-----|----|-----|-----|--------|-----|----|-----|-----|--------|-----|----|-----|-----|--------|-----|----|-----|-----|--------|-----|----|-----|-----|--------|-----|----|-----|-----|--------|-----|----|-----|-----|--------|-----|----|-----|-----|--------|-----|----|-----|-----|--------|-----|----|-----|-----|--------|-----|----|-----|-----|--------|-----|----|-----|-----|--------|-----|----|-----|-----|--------|-----|----|-----|-----|--------|-----|----|-----|-----|--------|-----|----|-----|-----|--------|-----|----|-----|-----|--------|-----|----|-----|-----|--------|-----|----|-----|-----|--------|-----|----|-----|-----|--------|-----|----|-----|-----|--------|-----|----|-----|-----|--------|-----|----|-----|-----|--------|-----|----|-----|-----|--------|-----|----|-----|-----|--------|-----|----|-----|-----|--------|-----|----|-----|-----|--------|-----|----|-----|-----|--------|-----|----|-----|-----|--------|-----|----|-----|-----|--------|-----|----|-----|-----|--------|-----|----|-----|-----|--------|-----|----|-----|-----|--------|-----|----|-----|-----|--------|-----|----|-----|-----|--------|-----|----|-----|-----|--------|-----|----|-----|-----|--------|-----|----|-----|-----|--------|-----|----|-----|-----|--------|-----|----|-----|-----|--------|-----|----|-----|-----|--------|-----|----|-----|-----|--------|-----|----|-----|-----|--------|-----|----|-----|-----|--------|-----|----|-----|-----|--------|-----|----|-----|-----|--------|-----|----|-----|-----|--------|-----|----|-----|-----|--------|-----|----|-----|-----|--------|-----|----|-----|-----|--------|-----|----|-----|-----|--------|-----|----|-----|-----|--------|-----|----|-----|-----|--------|-----|----|-----|-----|--------|-----|----|-----|-----|--------|-----|----|-----|-----|--------|-----|----|-----|-----|--------|-----|----|-----|-----|--------|-----|----|-----|-----|--------|-----|----|-----|-----|--------|-----|----|-----|-----|--------|-----|----|-----|-----|--------|-----|----|-----|-----|--------|-----|----|-----|-----|--------|-----|----|-----|-----|--------|-----|----|-----|-----|--------|-----|----|-----|-----|--------|-----|----|-----|-----|--------|-----|----|-----|-----|--------|-----|----|-----|-----|--------|-----|----|-----|-----|--------|-----|----|-----|-----|--------|-----|----|-----|-----|--------|-----|----|-----|-----|--------|-----|----|-----|-----|--------|-----|----|-----|-----|--------|-----|----|-----|-----|--------|-----|----|-----|-----|--------|-----|----|-----|-----|--------|-----|----|-----|-----|--------|-----|----|-----|-----|--------|-----|----|-----|-----|--------|-----|----|-----|-----|--------|-----|----|-----|-----|--------|-----|----|-----|-----|--------|-----|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| SURFACE | 28 | 401 | -2.1 | -8.13 | 3 | 28 | 11 | 15.7 | 14.0 | 04 | 1.2 | 28 | 4 | 15.4 | 11.1 | 36 | 1.7 | 28 | 423 | 10.8 | 8.5 | 35 | 1.2 | 28 | 57 | 3.1 | -5.29 | 28 | 57 | 3.1 | -5.29 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 | 28 | 182 | 5.3 | -15.30 | 1.9 |

RAWINSONDE DATA

Average monthly values

FEBRUARY 1970

| PORTLAND, OREGON 44° 55' N
123° 5' W | | | | | | | | | | PORTLAND, OREGON 44° 55' N
123° 5' W | | | | | | | | | | SULLY, WASH. 48° 54' N
123° 30' W | | | | | | | | | | RAPID CITY, S. DAK. 45° 50' N
97° 10' W | | | | | | | | | | ST. CLOUD, MINN. 45° 50' N
93° 10' W | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Temperature | | | | | | | | | | Temperature | | | | | | | | | | Temperature | | | | | | | | | | Temperature | | | | | | | | | | Temperature | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dew Point | | | | | | | | | | Dew Point | | | | | | | | | | Dew Point | | | | | | | | | | Dew Point | | | | | | | | | | Dew Point | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Speed | | | | | | | | | | Speed | | | | | | | | | | Speed | | | | | | | | | | Speed | | | | | | | | | | Speed | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 28 | 39 | 28.3 | 23.4 | 08 | 4.6 | 28 | 7.0 | 1.1 | 1.8 | 27 | 58 | 4.9 | 2.4 | 0.4 | 1.2 | 28 | 966 | -3.5 | -6.7 | 33 | 2.8 | 28 | 316 | -13.1 | -17.2 | 28 | 1.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Average monthly values

FEBRUARY 1979

| WINSLOW, ARIZ. | | | | | | | | | | YAKUTAT, ALASKA | | | | | | | | | | YAP, CAROLINE IS. | | | | | | | | | | YUCCA FLAT, NEV. | | | | | | | | | |
|----------------|----|--------|-------|-------|----|------|----|--------|-------|-----------------|----|------|--------|--------|-------|-------|----|------|----|-------------------|-------|-------|----|------|--|--|--|--|--|------------------|--|--|--|--|--|--|--|--|--|
| 854 MB | | | | | | | | | | 812 MB | | | | | | | | | | 1009 MB | | | | | | | | | | 882 MB | | | | | | | | | |
| SURFACE | 28 | 1,447 | +1.1 | -0.8 | 21 | 7 | 28 | 12 | 40 | -2.4 | 11 | 2.0 | 28 | 14 | 28.1 | 24.2 | 08 | 4.1 | 28 | 1,198 | 7 | -3.3 | 31 | 1.1 | | | | | | | | | | | | | | | |
| 1000 | 28 | 206 | | | | 28 | 28 | 88 | | | 12 | 2.4 | 28 | 96 | 26.9 | 22.3 | 08 | 5.3 | 28 | 198 | | | | | | | | | | | | | | | | | | | |
| 950 | 28 | 622 | | | | 28 | 28 | 503 | 1.9 | -2.0 | 14 | 5.7 | 28 | 544 | 22.8 | 1.4 | 08 | 7.0 | 28 | 616 | | | | | | | | | | | | | | | | | | | |
| 900 | 28 | 1,082 | | | | 28 | 28 | 937 | -15 | -3.5 | 14 | 6.8 | 28 | 1,018 | 19.4 | 24.0 | 08 | 9.7 | 28 | 1,059 | | | | | | | | | | | | | | | | | | | |
| 850 | 28 | 1,523 | | | | 20 | 5 | 1,393 | | | 12 | 7.9 | 28 | 1,509 | 17.4 | 4.3 | 08 | 1.5 | 28 | 1,524 | 6.3 | -5.0 | 01 | 1.9 | | | | | | | | | | | | | | | |
| 800 | 28 | 2,018 | 3.0 | -6.4 | 24 | 1.0 | 28 | 1,871 | -5.2 | -8.9 | 17 | 8.0 | 28 | 2,027 | 15.4 | 2.4 | 08 | 7.0 | 28 | 2,019 | 3.9 | -8.5 | 07 | 1.3 | | | | | | | | | | | | | | | |
| 750 | 28 | 2,537 | 1.0 | -9.0 | 25 | 1.7 | 28 | 2,375 | -7.9 | -12.1 | 14 | 7.6 | 28 | 2,571 | 13.3 | -2.3 | 08 | 7.6 | 28 | 2,538 | 7 | -11.1 | 04 | 1.1 | | | | | | | | | | | | | | | |
| 700 | 28 | 3,091 | -2.3 | -12.4 | 26 | 1.9 | 28 | 2,910 | -11.0 | -15.7 | 19 | 7.7 | 28 | 3,150 | 10.1 | -6.3 | 08 | 7.7 | 28 | 3,092 | -2.8 | -14.6 | 29 | 0.8 | | | | | | | | | | | | | | | |
| 650 | 28 | 3,674 | -5.9 | -16.6 | 27 | 2.9 | 28 | 3,474 | -14.4 | -19.6 | 20 | 8.2 | 28 | 3,763 | 7.0 | -4.9 | 08 | 8.3 | 28 | 3,672 | -6.4 | -18.4 | 25 | 2.8 | | | | | | | | | | | | | | | |
| 600 | 28 | 4,299 | -10.0 | -20.6 | 28 | 5.7 | 28 | 4,078 | -18.3 | -24.0 | 21 | 8.8 | 28 | 4,417 | 3.7 | -14.8 | 09 | 9.8 | 28 | 4,297 | -10.7 | -21.7 | 27 | 0.1 | | | | | | | | | | | | | | | |
| 550 | 28 | 4,983 | -14.1 | -25.5 | 28 | 7.0 | 28 | 4,721 | -22.4 | -28.8 | 22 | 10.0 | 28 | 5,117 | -4 | -19.2 | 09 | 10.0 | 28 | 4,954 | -14.9 | -25.6 | 28 | 5.3 | | | | | | | | | | | | | | | |
| 500 | 28 | 5,693 | -18.5 | -29.7 | 27 | 9.1 | 28 | 5,417 | -26.9 | -33.3 | 22 | 12.4 | 28 | 5,875 | -6 | -22.3 | 09 | 10.0 | 28 | 5,677 | -19.6 | -30.8 | 28 | 7.7 | | | | | | | | | | | | | | | |
| 450 | 28 | 6,494 | -23.9 | -34.2 | 28 | 12.5 | 28 | 6,165 | -32.1 | -38.4 | 23 | 14.4 | 28 | 6,695 | -9.0 | -27.2 | 09 | 10.2 | 28 | 6,446 | -24.8 | -35.8 | 27 | 10.2 | | | | | | | | | | | | | | | |
| 400 | 28 | 7,312 | -29.6 | -40.3 | 28 | 14.8 | 28 | 6,992 | -38.1 | -42.9 | 23 | 16.1 | 28 | 7,603 | -14.5 | -32.7 | 09 | 9.9 | 28 | 7,299 | -30.5 | -41.1 | 27 | 14.7 | | | | | | | | | | | | | | | |
| 350 | 28 | 8,250 | -37.1 | -46.2 | 28 | 17.8 | 28 | 7,898 | -44.8 | -48 | 24 | 15.4 | 28 | 8,600 | -21.6 | -39.0 | 09 | 10.8 | 28 | 8,224 | -37.3 | -47.1 | 27 | 16.1 | | | | | | | | | | | | | | | |
| 300 | 28 | 9,298 | -45.0 | -53.9 | 28 | 21.9 | 28 | 8,942 | -52.1 | -56.1 | 24 | 17.8 | 28 | 9,717 | -30.6 | -46.1 | 09 | 9.2 | 28 | 9,282 | -44.9 | -52.9 | 27 | 18.9 | | | | | | | | | | | | | | | |
| 250 | 28 | 10,474 | -52.9 | -61.9 | 28 | 26.7 | 28 | 10,081 | -60.1 | -64.1 | 25 | 20.1 | 28 | 10,961 | -37.7 | -53.7 | 09 | 11.2 | 28 | 10,479 | -51.1 | -60.1 | 27 | 22.7 | | | | | | | | | | | | | | | |
| 200 | 28 | 11,914 | -58.5 | -68 | 28 | 28.5 | 27 | 11,481 | -59.1 | -63 | 25 | 15.7 | 28 | 12,470 | -52.4 | | 13 | 13.7 | 28 | 11,898 | -54.3 | | 27 | 27.0 | | | | | | | | | | | | | | | |
| 175 | 28 | 12,752 | -59.1 | | 27 | 29.7 | 27 | 12,323 | -56.7 | | 23 | 13.9 | 28 | 13,319 | -59.3 | | 13 | 12.9 | 28 | 12,736 | -54.3 | | 27 | 27.9 | | | | | | | | | | | | | | | |
| 150 | 28 | 13,716 | -60.6 | | 28 | 29.1 | 27 | 13,304 | -55.4 | | 24 | 12.7 | 28 | 14,267 | -66.9 | | 13 | 13.9 | 28 | 13,702 | -54.3 | | 28 | 25.4 | | | | | | | | | | | | | | | |
| 125 | 28 | 14,844 | -63.2 | | 27 | 24.3 | 27 | 14,471 | -53.9 | | 24 | 11.3 | 28 | 15,348 | -74.5 | | 13 | 14.6 | 28 | 14,838 | -61.7 | | 28 | 21.9 | | | | | | | | | | | | | | | |
| 100 | 28 | 16,205 | -66.7 | | 27 | 19.9 | 27 | 15,955 | -54.3 | | 23 | 8.0 | 28 | 16,623 | -86.8 | | 11 | 17.7 | 28 | 16,211 | -64.9 | | 28 | 17.5 | | | | | | | | | | | | | | | |
| 80 | 28 | 17,568 | -68.0 | | 28 | 16.5 | 25 | 17,335 | -54.5 | | 23 | 6.5 | 28 | 17,882 | -94.5 | | 10 | 16.1 | 28 | 17,572 | -65.4 | | 28 | 14.7 | | | | | | | | | | | | | | | |
| 70 | 28 | 18,352 | -67.0 | | 28 | 13.8 | 27 | 18,191 | -54.1 | | 23 | 5.6 | 28 | 18,648 | -75.1 | | 9 | 2.7 | 28 | 18,388 | -64.1 | | 28 | 10.2 | | | | | | | | | | | | | | | |
| 60 | 27 | 19,241 | -65.4 | | 29 | 9.1 | 28 | 19,183 | -54.1 | | 24 | 4.1 | 28 | 19,548 | -71.3 | | 34 | 2.8 | 28 | 19,329 | -64.0 | | 29 | 8.1 | | | | | | | | | | | | | | | |
| 50 | 27 | 20,395 | -63.8 | | 29 | 6.4 | 28 | 20,351 | -53.9 | | 23 | 3.5 | 27 | 20,634 | -67.3 | | 29 | 2.6 | 28 | 20,406 | -61.6 | | 29 | 5.8 | | | | | | | | | | | | | | | |
| 40 | 27 | 21,772 | -62.5 | | 29 | 5.8 | 28 | 21,781 | -54.8 | | 27 | 2.8 | 28 | 21,994 | -62.5 | | 10 | 3.8 | 28 | 21,840 | -61.4 | | 31 | 4.4 | | | | | | | | | | | | | | | |
| 30 | 26 | 23,535 | -60.3 | | 29 | 2.8 | 28 | 23,633 | -55.0 | | 26 | 1.8 | 28 | 23,792 | -51.4 | | 10 | 1.0 | 28 | 23,628 | -51.7 | | 30 | 3.8 | | | | | | | | | | | | | | | |
| 25 | 23 | 24,704 | -58.5 | | 29 | 7.3 | 27 | 24,803 | -56.5 | | 26 | 1.7 | 28 | 24,949 | -56.3 | | 19 | 15.5 | 28 | 24,775 | -56.3 | | 30 | 4.4 | | | | | | | | | | | | | | | |
| 20 | 20 | 26,134 | -55.5 | | 28 | 10.0 | 28 | 26,208 | -58.2 | | 24 | 5.1 | 28 | 26,383 | -51.4 | | 19 | 16.2 | 28 | 26,178 | -55.7 | | 29 | 6.8 | | | | | | | | | | | | | | | |
| 15 | 19 | 27,987 | -51.7 | | 27 | 15.0 | 27 | 28,000 | -58.2 | | 24 | 5.8 | 28 | 28,279 | -60.8 | | 19 | 16.3 | 28 | 28,021 | -52.3 | | 27 | 6.8 | | | | | | | | | | | | | | | |
| 10 | 10 | 30,685 | -43.3 | | 26 | 10.0 | 30 | 30,561 | -61.3 | | 14 | 30 | 30,990 | -41.7 | | | | | | 30,677 | -47.6 | | | | | | | | | | | | | | | | | | |

RAWINSONDE DATA

REFERENCE NOTES

FEBRUARY 1970

The average monthly station pressures for the month of record, corrected to the height of the floors of the instrument shelters used for rawinsonde purposes. "Number of observations" refers to those of dynamic height only. Although the number of temperature observations at any given pressure surface is usually the same as for height, it is possible for temperature to be missing for one or more pressure surfaces of some observations. Dew Point averages are limited to those observations with temperatures warmer than -40°C. Observations of wind speed and direction are sometimes lost due to limiting angles, i.e., elevation angles less than 6° above the horizon, or any obstruction above the horizon.

The temperature and wind values are based on 15 or more observations at the surface or 5 observations at a standard pressure level for temperature and 10 for wind. Dew Point data are not published for standard pressure surfaces for which less than 5 observations are available. Dew Point data are computed and expressed on the basis of vapor pressure over water. Unless otherwise indicated, they are obtained from carbon hygrometers.

These average values for standard pressure surfaces were obtained by rawinsondes; dynamic height (geopotential) in units of .98 dynamic meter, temperature and dew point in degrees Celsius, and resultant winds in tens of degrees and meters per second.

* Rawinsondes at this station were equipped with hypsometers to permit more accurate evaluations of pressure, and consequently height, at pressures lower than 50 mb. These rawinsondes were carried aloft by special high altitude balloons, in an effort to consistently reach higher altitudes.

+ Observations for these stations are scheduled at 0000 G.C.T.

† Dew Point temperatures are based on a minimum of 5 observations. Therefore, due to the lesser number of Dew Point observations at the surface and higher levels comparison with dry-bulb temperatures should be made with care. Dew Point temperatures replaced Relative Humidity January 1967.

SOLAR RADIATION INTENSITIES

Tabulated in langley's per minute on a surface normal to the direction of the sun.

| Sun's zenith distance | | | | | | | | | |
|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Date | A. M. | | | | * | P. M. | | | |
| | 78.7° | 75.7° | 70.7° | 60.0° | 60.0° | 70.7° | 75.7° | 78.7° | |
| OMAHA, NEBR. | | | | | | | | | |
| Air mass | | | | | | | | | |
| | 4.78 | 3.82 | 2.87 | 1.91 | * | 1.91 | 2.87 | 3.82 | 4.78 |
| Feb. 1----- | HS0.82 | HMO.88 | HMI.08 | HMI.24 | ---- | ---- | ---- | ---- | ---- |
| 2----- | ----- | HS1.06 | HS1.11 | HS1.32 | 1.36 | 1.38 | HS1.18 | HS1.04 | HS0.94 |
| 3----- | .92 | 1.04 | 1.18 | ----- | ----- | ----- | ----- | ----- | ----- |
| 4----- | ----- | ----- | ----- | ----- | ----- | 1.28 | 1.14 | 1.04 | HS .88 |
| 5----- | HS .93 | HS1.04 | 1.18 | 1.30 | ----- | ----- | ----- | ----- | ----- |
| 6----- | HS .81 | HS .93 | HS1.06 | 1.30 | 1.32 | ----- | ----- | ----- | ----- |
| 8----- | .87 | .95 | 1.07 | 1.25 | ----- | ----- | ----- | ----- | ----- |
| 13----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 17----- | ----- | ----- | HS1.07 | HS1.23 | HMI.18 | ----- | ----- | ----- | ----- |
| 19----- | .86 | .96 | 1.05 | 1.21 | ----- | H 1.09 | HS .99 | HS .89 | ----- |
| 20----- | ----- | ----- | ----- | ----- | ----- | ----- | HS .92 | HS .82 | ----- |
| 21----- | .92 | 1.00 | 1.13 | 1.27 | ----- | HS1.20 | HS1.06 | ----- | ----- |
| 22----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 23----- | .94 | 1.08 | 1.17 | 1.27 | ----- | HS1.32 | HS1.24 | HS1.14 | HS1.09 |
| 24----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 26----- | .84 | 1.00 | 1.12 | 1.26 | ----- | HS1.29 | HS1.18 | ----- | ----- |
| Aver-
ages | 0.88 | 0.94 | 1.11 | 1.27 | 1.29 | 1.26 | 1.12 | 1.02 | 0.90 |
| ALBUQUERQUE, N. MEX. | | | | | | | | | |
| Air mass | | | | | | | | | |
| | 4.19 | 3.35 | 2.51 | 1.67 | * | 1.67 | 2.51 | 3.35 | 4.19 |
| Feb. 1----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 2----- | ----- | ----- | ----- | 1.40 | 1.48 | ----- | 1.23 | 1.09 | ----- |
| 3----- | 1.08 | 1.18 | 1.28 | 1.44 | 1.50 | ----- | 1.29 | ----- | ----- |
| 4----- | 1.05 | 1.16 | 1.26 | 1.42 | 1.48 | ----- | ----- | ----- | ----- |
| 5----- | 1.00 | 1.12 | 1.22 | 1.38 | 1.46 | 1.35 | 1.20 | 1.11 | 0.99 |
| 6----- | ----- | ----- | ----- | 1.44 | 1.41 | ----- | ----- | ----- | ----- |
| 9----- | ----- | ----- | ----- | ----- | 1.41 | 1.32 | 1.15 | 1.02 | .91 |
| 12----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 13----- | .90 | 1.03 | 1.18 | 1.33 | 1.46 | 1.39 | ----- | ----- | ----- |
| 15----- | 1.02 | 1.14 | 1.25 | 1.39 | 1.50 | 1.42 | 1.27 | 1.15 | ----- |
| 16----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 17----- | 1.11 | H 1.17 | 1.30 | 1.43 | 1.55 | 1.44 | 1.29 | 1.19 | 1.06 |
| 18----- | ----- | ----- | ----- | ----- | 1.51 | ----- | ----- | ----- | 1.06 |
| 24----- | .89 | 1.00 | 1.12 | 1.28 | 1.40 | ----- | ----- | ----- | ----- |
| 25----- | ----- | ----- | ----- | 1.25 | 1.40 | ----- | ----- | ----- | ----- |
| 27----- | ----- | ----- | ----- | ----- | 1.44 | ----- | ----- | ----- | ----- |
| Aver-
ages | 1.01 | 1.12 | 1.24 | 1.38 | 1.46 | 1.39 | 1.24 | 1.11 | 1.01 |
| HS Slight haze
HM Moderate haze
H Haze | | | | | | | | | |
| S Slight Haze - indeterminate
M Moderate haze - indeterminate
* Values corresponding to true solar noon | | | | | | | | | |

| Sun's zenith distance | | | | | | | | | |
|-----------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Date | A. M. | | | | * | P. M. | | | |
| | 78.7° | 75.7° | 70.7° | 60.0° | 60.0° | 70.7° | 75.7° | 78.7° | |
| TUCSON, ARIZ. | | | | | | | | | |
| Air mass | | | | | | | | | |
| | 4.56 | 3.65 | 2.74 | 1.83 | * | 1.83 | 2.74 | 3.65 | 4.56 |
| Feb. 1----- | 0.91 | ----- | ----- | ----- | ----- | 1.24 | 0.98 | 0.86 | 0.73 |
| 2----- | 1.03 | 1.15 | 1.26 | 1.40 | 1.48 | 1.36 | 1.25 | 1.14 | 1.04 |
| 4----- | ----- | ----- | ----- | ----- | ----- | 1.32 | ----- | ----- | ----- |
| 5----- | ----- | ----- | ----- | 1.26 | 1.35 | ----- | 1.07 | .95 | .88 |
| 6----- | .84 | .94 | 1.07 | 1.26 | 1.33 | 1.22 | .99 | .88 | .77 |
| 7----- | .98 | 1.10 | 1.21 | 1.32 | 1.42 | 1.34 | 1.17 | 1.05 | .97 |
| 8----- | .96 | 1.05 | 1.17 | 1.25 | 1.40 | 1.27 | 1.10 | .98 | .88 |
| 9----- | ----- | ----- | 1.05 | ----- | ----- | ----- | ----- | ----- | ----- |
| 11----- | ----- | ----- | ----- | ----- | ----- | 1.27 | 1.12 | .94 | ----- |
| 12----- | .91 | 1.01 | 1.13 | 1.27 | 1.41 | 1.27 | 1.15 | 1.02 | .91 |
| 13----- | ----- | ----- | ----- | 1.25 | ----- | ----- | ----- | ----- | ----- |
| 14----- | .97 | 1.03 | 1.14 | 1.27 | 1.34 | ----- | ----- | ----- | ----- |
| 15----- | .96 | 1.07 | 1.19 | 1.32 | 1.46 | 1.35 | 1.21 | 1.04 | .97 |
| 16----- | 1.04 | 1.13 | 1.24 | 1.38 | 1.48 | 1.35 | 1.21 | 1.09 | .98 |
| 17----- | 1.01 | 1.10 | 1.24 | 1.38 | 1.45 | 1.38 | 1.17 | 1.07 | .98 |
| 18----- | .84 | .94 | 1.05 | 1.25 | 1.40 | 1.28 | 1.14 | .98 | .88 |
| 19----- | .95 | 1.05 | 1.16 | 1.32 | 1.43 | 1.26 | 1.08 | .93 | .85 |
| 20----- | ----- | ----- | ----- | ----- | 1.34 | ----- | ----- | ----- | ----- |
| 21----- | ----- | ----- | ----- | ----- | ----- | 1.16 | 1.01 | .89 | .81 |
| 22----- | ----- | ----- | ----- | 1.23 | 1.39 | ----- | ----- | ----- | ----- |
| 23----- | ----- | .87 | ----- | 1.16 | 1.29 | 1.18 | ----- | ----- | ----- |
| 24----- | .79 | .85 | .98 | 1.19 | ----- | ----- | ----- | ----- | ----- |
| 25----- | ----- | ----- | .93 | ----- | 1.29 | ----- | ----- | ----- | ----- |
| 27----- | .75 | .86 | .98 | 1.17 | ----- | ----- | .94 | .82 | .73 |
| 28----- | .87 | .95 | 1.10 | ----- | 1.38 | ----- | ----- | ----- | ----- |
| Aver-
ages | 0.92 | 1.01 | 1.12 | 1.28 | 1.39 | 1.28 | 1.10 | .98 | 0.88 |
| MADISON, WIS. | | | | | | | | | |
| Air mass | | | | | | | | | |
| | 4.69 | 3.75 | 2.81 | 1.88 | * | 1.88 | 2.81 | 3.75 | 4.69 |
| Feb. 1----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 3----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 5----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 11----- | S 0.83 | S 0.94 | S 1.10 | S 1.23 | ----- | ----- | ----- | ----- | ----- |
| 20----- | S .81 | S 1.01 | S 1.07 | S 1.29 | S 1.31 | S 1.26 | M 1.11 | ----- | ----- |
| 21----- | ----- | ----- | ----- | ----- | S 1.32 | M 1.22 | M 1.08 | M 0.96 | M 0.86 |
| 22----- | S .90 | S .98 | S 1.15 | S 1.35 | S 1.39 | S 1.34 | S 1.20 | S 1.09 | S 1.00 |
| 23----- | S .89 | S 1.00 | S 1.15 | ----- | S 1.35 | S 1.35 | S 1.21 | S 1.09 | S .98 |
| 25----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| Aver-
ages | 0.86 | 0.98 | 1.12 | 1.28 | 1.34 | 1.29 | 1.17 | 1.05 | 0.95 |

HS Slight haze
HM Moderate haze
H Haze
S Slight haze - indeterminate
M Moderate haze - indeterminate
* Values corresponding to true solar noon

Langley is the unit used to denote one gram calorie per square centimeter. An explanation of the formula used in computing the air mass values for each station listed above appears

in the February 1957 issue, Vol. 8, No. 2, page 63, of this publication.

SOLAR RADIATION TOTALS

Daily totals and monthly averages of solar radiation (direct and diffuse) received on a horizontal surface, tabulated in langleys.

FEBRUARY 1970

| Station | Day of month | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|--------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|-----|------|-----|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | Avg. | |
| ALBUQUERQUE N.M. | 163 | 359 | 369 | 301 | 328 | 368 | 359 | 379 | 378 | 369 | 319 | 363 | 355 | 207 | 379 | 383 | 393 | 345 | 232 | 237 | 114 | 109 | 362 | 393 | 410 | 386 | 449 | 369 | | | | 326 | |
| AMES IOWA | 245 | 279 | 278 | 263 | --- | 246 | 204 | 76 | 89 | 174 | 82 | 124 | 228 | 90 | 203 | 272 | 288 | 117 | 362 | 416 | 329 | 333 | 323 | 371 | 239 | 331 | 349 | 270 | | | | 235 | |
| ANNETTE ALASKA | 42 | 46 | 117 | 31 | 31 | 97 | 74 | 21 | 71 | 162 | 163 | 163 | 138 | 27 | 127 | 140 | 100 | 14 | 29 | 43 | 115 | 27 | 67 | 34 | 237 | 244 | 268 | 175 | | | | 102 | |
| APALACHICOLA FLORIDA | 123 | 449 | 395 | 461 | 389 | 486 | 433 | 435 | 471 | 448 | 380 | 478 | 460 | 449 | 226 | 103 | 326 | 57 | 414 | 490 | 525 | 488 | 370 | 371 | 478 | 537 | 502 | 320 | | | | 371 | |
| ARGONNE NAT. LAB. | 205 | 94 | 305 | 117 | 307 | 132 | 56 | 47 | 178 | 150 | 160 | 270 | 365 | 221 | 299 | 368 | 294 | 171 | 466 | 418 | 377 | 366 | 384 | 328 | 410 | 251 | 213 | 347 | | | | 259 | |
| ASTORIA OREGON | 178 | 108 | 179 | 84 | 25 | 36 | 246 | 230 | 248 | --- | --- | --- | 248 | 48 | 11 | 39 | 177 | 73 | 304 | 320 | 324 | 134 | 292 | 341 | 335 | 342 | 341 | 333 | | | | 200 | |
| ATLANTA GEORGIA | 151 | 252 | 303 | 418 | 299 | 289 | 332 | 274 | 263 | 271 | 399 | 444 | 411 | 346 | 180 | 42 | 169 | 403 | 450 | 420 | 500 | 468 | 221 | 74 | 508 | 490 | 371 | | | | 325 | | |
| BARROW ALASKA | 6 | 9 | 12 | 3 | 6 | 17 | 1 | 24 | 32 | 8 | --- | 5 | 21 | 29 | 35 | 42 | 39 | 43 | 73 | 72 | 27 | 59 | 12 | 47 | 31 | 44 | 96 | 46 | | | | 70 | |
| BETHLEHEM ALASKA | 88 | 70 | 79 | 118 | 73 | 112 | 91 | 76 | 40 | 97 | 73 | 34 | 18 | 64 | 23 | 55 | 76 | 77 | 67 | 110 | 145 | 39 | 59 | 53 | 138 | 80 | 144 | 100 | | | | 39 | |
| BISMARCK N.D.A.K. | 169 | 296 | 128 | 224 | 271 | 206 | 230 | 306 | 251 | 193 | 217 | 219 | 287 | 286 | 294 | 317 | 164 | 364 | 354 | 337 | 368 | 375 | --- | --- | 316 | 238 | 312 | 240 | | | | 268 | |
| BLUE HILL MASS. | --- | --- | --- | --- | --- | --- | 151 | 121 | 137 | --- | --- | 297 | 184 | --- | --- | --- | 324 | 225 | 223 | 216 | 345 | 341 | 298 | 364 | 302 | 149 | 262 | 147 | 3 | | | | 227 |
| BOISE IDAHO | 213 | 236 | 80 | 214 | 106 | 233 | 260 | 283 | 268 | 277 | 172 | 168 | 199 | 286 | 159 | 81 | 239 | 268 | 362 | 347 | 327 | 343 | 327 | 342 | 348 | 355 | 365 | 93 | | | | 248 | |
| BRAUNSVILLE TEXAS | --- | 344 | 518 | 494 | 289 | 288 | 179 | 191 | 492 | 456 | 409 | 293 | 506 | 436 | 117 | 544 | 554 | 533 | 165 | 43 | 213 | 275 | 162 | 348 | 963 | 492 | 190 | 177 | | | | 343 | |
| BURLINGTON VERMONT | 232 | 68 | 26 | 257 | 117 | 158 | 273 | 252 | 143 | 78 | 59 | 271 | 284 | 66 | 306 | 205 | 203 | 214 | 331 | 351 | 127 | 299 | 227 | 249 | 391 | 236 | 188 | | | | 211 | | |
| CAP. HATTERAS N.C. | 380 | 59 | 23 | 342 | 271 | 364 | 369 | 378 | 125 | 176 | 409 | 404 | 408 | 307 | 296 | 66 | 44 | 265 | 421 | 427 | 455 | 458 | 371 | 375 | 199 | 280 | 480 | 464 | | | | 308 | |
| CARIBOU MAINE | 209 | 149 | 36 | 61 | 220 | 230 | 229 | 299 | 287 | 191 | 41 | 168 | 242 | 298 | 171 | 233 | 238 | 251 | 228 | 350 | 331 | 164 | 326 | 396 | 244 | 425 | 392 | 383 | | | | 243 | |
| CHARLESTON S.C. | 325 | 84 | 82 | 426 | 362 | 332 | 406 | 396 | 366 | 383 | 334 | 412 | 426 | 445 | 403 | 290 | 84 | 48 | 252 | 453 | 407 | 492 | 499 | 407 | 287 | 84 | 543 | 532 | 464 | | | | 347 |
| CLEVELAND OHIO | 251 | 22 | 188 | 269 | 94 | 280 | 224 | 116 | 37 | 154 | 102 | 174 | 448 | 209 | 187 | 278 | 315 | 291 | 219 | 213 | 108 | 320 | 366 | 344 | 226 | 331 | 161 | 413 | | | | 273 | |
| COLUMBIA MISSOURI | 67 | 258 | 368 | 114 | 387 | 283 | 170 | 47 | 192 | 372 | 102 | 264 | 219 | 114 | 412 | 489 | 263 | 428 | 411 | 422 | 61 | 460 | 95 | 465 | 441 | 428 | 350 | | | | 276 | | |
| DAVIS CALIFORNIA | 281 | 296 | 256 | 188 | 240 | 206 | 216 | 131 | 145 | 200 | 256 | 137 | 261 | 164 | 74 | 229 | 362 | 380 | 373 | 356 | 359 | 327 | 327 | 333 | 346 | 345 | 150 | | | | 258 | | |
| DOORSE CITY KANSAS | 302 | 320 | 352 | 300 | 361 | 351 | 338 | 386 | 395 | 389 | 390 | 263 | 286 | 282 | 396 | 372 | 416 | 422 | 428 | 443 | 394 | 369 | 263 | 347 | 464 | 458 | 366 | 278 | | | | 362 | |
| E. JANSING MICHIGAN | 261 | 78 | 204 | --- | --- | --- | --- | --- | --- | --- | --- | 190 | 343 | 300 | 309 | 332 | 286 | 175 | 341 | 365 | 174 | 380 | 385 | 360 | 340 | 211 | 259 | 436 | | | | 286 | |
| EL CENTRO CALIF. NPF | 367 | 369 | 299 | 303 | 372 | 378 | 393 | 369 | 258 | 51* | 310 | 397 | 357 | 421 | 430 | 434 | 436 | 451 | 446 | 345 | 430 | 423 | 443 | 428 | 457 | 338 | 417 | 239 | | | | 370* | |
| EL PASO TEXAS | 203 | 249 | 423 | 356 | 287 | 437 | 423 | 447 | 437 | 410 | 266 | 450 | 463 | 373 | 490 | 494 | 511 | 512 | 485 | 115 | 89 | 281 | 442 | 415 | 503 | 443 | 395 | 527 | | | | 383 | |
| ELY NEVADA | 244 | 319 | 327 | 354 | 320 | 359 | 358 | 373 | 277 | 224 | 244 | 204 | 317 | 308 | 385 | 346 | 281 | 464 | 311 | 311 | 312 | 249 | 322 | 367 | 382 | 288 | 224 | | | | 323 | | |
| EMPLEY NEWPORT R.I. | 172 | 77 | --- | --- | --- | 190 | 223 | 280 | 258 | 210 | 27 | 63 | 330 | 269 | 263 | 47 | 324 | 122 | 307 | 227 | 355 | 359 | 338 | 388 | 313 | 305 | 405 | 200 | 101 | | | | 237 |
| FLAVING JORGE UTAH | 454 | 294 | 243 | 311 | 168 | 211 | 356 | 367 | 373 | 252 | 355 | 149 | 168 | 253 | 316 | 379 | 182 | 377 | 423 | 409 | 322 | 424 | 363 | 219 | 408 | 472 | 449 | 342 | | | | 313 | |
| FORT WORTH TEXAS | 116 | 287 | 437 | 389 | 178 | 85 | 137 | 340 | 439 | 399 | 408 | 416 | 382 | 68 | 67 | 453 | 455 | 451 | 403 | 380 | 166 | 119 | 66 | 33 | 481 | 476 | 254 | 297 | | | | 291 | |
| FRESNO CALIFORNIA | 216 | 224 | 275 | 281 | 171 | 245 | 224 | 121 | 196 | 294 | 278 | 124 | 398 | 392 | 420 | 364 | 416 | 426 | 361 | 368 | 416 | 409 | 414 | 415 | 420 | 363 | 70 | | | | 302 | | |
| GENEVA NEW YORK | 240 | 81 | 63 | 273 | 128 | 219 | 263 | 234 | 73 | 41 | 93 | 792 | 322 | 285 | 88 | 286 | 298 | 226 | 236 | 280 | 181 | 287 | 312 | 295 | 412 | 362 | 165 | 278 | | | | 218 | |
| GLASGOW MONTANA | 161 | 141 | 212 | 266 | 262 | 190 | 265 | 274 | 188 | 139 | 147 | 231 | 256 | 226 | 168 | 266 | 106 | 276 | 232 | 326 | 344 | 343 | 350 | 324 | 167 | 200 | 218 | | | | 238 | | |
| GRAND JUNCTION COLO. | 314 | 343 | 340 | 311 | 276 | 283 | 362 | 375 | 376 | 341 | 362 | 305 | 264 | 357 | 339 | 335 | 235 | 207 | 427 | 408 | 350 | 371 | 272 | 413 | 434 | 469 | 412 | 198 | | | | 346 | |
| GREAT FALLS MONTANA | 113 | 146 | 170 | 250 | 235 | 187 | 282 | 275 | 275 | 276 | 283 | 272 | 153 | 188 | 186 | 208 | 78 | 205 | 266 | 247 | 349 | 350 | 351 | 351 | 310 | 255 | 215 | 271 | | | | 237 | |
| GREENSBORO N.C. | 294 | 180 | 94 | 363 | 169 | 214 | 313 | 183 | 59 | 282 | 357 | 350 | 363 | 171 | 161 | 29 | 90 | 583 | 372 | 420 | 421 | 401 | 384 | 357 | 74 | 482 | 417 | 381 | | | | 269 | |
| INDIANAPOLIS INDIANA | 197 | 68 | 300 | 193 | 86 | 133 | 42 | 41 | 45 | 245 | 166 | 292 | 329 | 153 | 259 | 357 | 322 | 331 | 366 | 382 | 366 | 196 | 346 | 346 | 252 | 380 | 397 | 340 | | | | 246 | |
| ITHACA NEW YORK | 152 | 47 | 28 | 131 | 38 | 170 | 343 | 146 | 116 | 79 | 108 | 185 | 203 | 259 | 105 | 266 | 398 | 316 | 253 | 308 | 238 | 390 | 403 | 423 | 242 | 459 | 233 | 325 | | | | 227 | |
| LAKE CHARLES LA. | 235 | 365 | 427 | 423 | 168 | 130 | 273 | 354 | 459 | 447 | 427 | 437 | 210 | 365 | 177 | 244 | 480 | 373 | 456 | 455 | 483 | 387 | 183 | --- | 207 | 509 | 325 | 235 | | | | 342 | |
| LANDER FLORIDA | 334 | 334 | 50 | 103 | 507 | 409 | 316 | 424 | 470 | 398 | 491 | 396 | 328 | 473 | 455 | 347 | 170 | 283 | 492 | 460 | 432 | 540 | 497 | 380 | 433 | 216 | 573 | 566 | | | | 388 | |
| LANDING WYOMING | 167 | 284 | 312 | 317 | 216 | 292 | 309 | 315 | 323 | 323 | 303 | 286 | 139 | 354 | 242 | 218 | 302 | 228 | 372 | 373 | 362 | 364 | 365 | 283 | 396 | 407 | 412 | 187 | | | | 303 | |
| LAS VEGAS NEVADA | 376 | 363 | 325 | 268 | 350 | 342 | 369 | 366 | 150 | 93 | 162 | 303 | 370 | 407 | 378 | 393 | 381 | 444 | 440 | 300 | 112 | 411 | 381 | 446 | 360 | 401 | 266 | | | | 332 | | |
| LEXINGTON KENTUCKY | 438 | 37 | 363 | 395 | 121 | 177 | 67 | 27 | 95 | 140 | 72 | 302 | 146 | 64 | 90 | 316 | 280 | 393 | 132 | 374 | 411 | | | | | | | | | | | | |

SOLAR RADIATION TOTALS

Daily totals and monthly averages of solar radiation (direct and diffuse) received on a horizontal surface, tabulated in langleys.

FEBRUARY 1970

| Station | Day of month | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Avg. |
|-------------------------|--------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|-----|-----|----|----|------|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | |
| ALBUQUERQUE, N.M. | 324 | 438 | 355 | 256 | 195 | 456 | 387 | 415 | 230 | 218 | 152 | 419 | 482 | 403 | 460 | 465 | 467 | 467 | 160 | 169 | 250 | 451 | 423 | 481 | 433 | 446 | 271 | 412 | 395 | | | |
| PORTLAND, ME. | 94 | 103 | 129 | 182 | 192 | 136 | 227 | 184 | 52 | 49 | 261 | 254 | 31 | 254 | 31 | 75 | 339 | 237 | 100 | 328 | 313 | 252 | 343 | 343 | 186 | 367 | 259 | 193 | | | | |
| PORTLAND, WASHINGTON | 213 | 67 | 239 | 152 | 41 | 40 | 52 | 108 | 36 | 27 | 101 | 137 | 248 | 34 | 34 | 44 | 265 | 287 | 233 | 530 | 331 | 298 | -- | -- | 342 | 340 | 304 | 330 | 165 | | | |
| PALM SPRINGS, CALIF. | 175 | 151 | 163 | 146 | 103 | 57 | 174 | 243 | 339 | 169 | 139 | 119 | 44 | 137 | 44 | 45 | 198 | 456 | 274 | 279 | 294 | 292 | 264 | 264 | 279 | 295* | 295* | 136 | | | | |
| PALM SPRINGS, CALIF. | 247 | 167 | 189 | 254 | 259 | 135 | 268 | 279 | 285 | 308 | 264 | 161 | 150 | 269 | 122 | 214 | 201 | 320 | 280 | 345 | 352 | 358 | 364 | 364 | 369 | 389 | 297 | 427 | 64 | | | |
| RENO, NEVADA | 292 | 322 | 227 | 303 | 162 | 315 | 329 | 320 | 259 | 132 | 242 | 290 | 397 | 318 | 228 | 260 | 271 | 386 | 403 | 404 | 376 | 392 | 393 | 393 | 394 | 394 | 353 | 357 | 757 | | | |
| RICHMOND, 25 MI. WASH. | 217 | 55 | 222 | 146 | 67 | 78 | 63 | 249 | 75 | 89 | 59 | 131 | 185 | 247 | 37 | 40 | 294 | 336 | 311 | 331 | 341 | 322 | 203 | 355 | 347 | 176 | 234 | 161 | | | | |
| RIVERSIDE, CALIFORNIA | 403 | 416 | 447 | 454 | 359 | 398 | 424 | 367 | 188 | 89 | 361 | 231 | 483 | 452 | 468 | 464 | 382 | 495 | 500 | 452 | 493 | 480 | 485 | 447 | 483 | 467 | 470 | 377 | 86 | | | |
| RUSTON, LOUISIANA | 47 | 56 | 425 | 352 | 184 | 217 | 355 | 135 | 397 | 397 | 393 | 383 | 291 | 137 | 13 | 215 | 431 | 388 | 429 | 420 | 427 | 215 | 255 | 85 | 352 | 470 | 350 | 106 | | | | |
| SAINT CLOUD, MINN. | 124 | 270 | 251 | 158 | 278 | 254 | 228 | 243 | 129 | 108 | 271 | 214 | 326 | 242 | 311 | 244 | 206 | 251 | 322 | 287 | 349 | 353 | 366 | 353 | 353 | 362 | 326 | 349 | 236 | | | |
| SALT LAKE CITY | 114 | 209 | 278 | 273 | 136 | 285 | 328 | 353 | 339 | 341 | 304 | 284 | 243 | 237 | 268 | 217 | 145 | 327 | 384 | 384 | 299 | 368 | 384 | 384 | 424 | 432 | 430 | 274 | | | | |
| SAN ANTONIO, TEXAS | 415 | 418 | 439 | 393 | 143 | 103 | 190 | 336 | 464 | 410 | 425 | 444 | 388 | 257 | 224 | 494 | 493 | 460 | 322 | 322 | 176 | 53 | 40 | 203 | 450 | 504 | 504 | 59 | 141 | | | |
| SANTA MARIA, CALIF. | 356 | 373 | 344 | 278 | 330 | 349 | 369 | 281 | 172 | 120 | 139 | 345 | 258 | 406 | 406 | 390 | 413 | 443 | 463 | 422 | 431 | 426 | 423 | 429 | 434 | 439 | 260 | 138 | | | | |
| SAULT STE. MARIE, MICH. | 235 | 200 | 266 | 180 | 226 | 187 | 79 | 255 | 297 | 172 | 316 | 190 | -- | 324 | 229 | 261 | 217 | 211 | 272 | 420 | 187 | 315 | 262 | 257 | 392 | 143 | 410 | 390 | | | | |
| SEATTLE, WASH. | 148 | 77 | 212 | 74 | 44 | 123 | 234 | 242 | 223 | 241 | 88 | 109 | 92 | 165 | 33 | 77 | 79 | 126 | 282 | -- | 306 | 218 | 299 | 319 | 309 | 324 | 233 | 355 | | | | |
| SPOKANE, WASHINGTON | 216 | 120 | 186 | 205 | 94 | 60 | 174 | 254 | 259 | 265 | 240 | 96 | 71 | 90 | 54 | 51 | 187 | 196 | 301 | 195 | 315 | 373 | 213 | 327 | 324 | 263 | 180 | 277 | | | | |
| STERLING, VIRGINIA | 302 | 100 | 24 | 360 | 143 | 180 | 289 | 154 | 37 | 70 | 237 | 296 | 255 | 66 | 99 | 168 | 185 | 361 | 324 | 363 | 351 | 330 | 411 | 376 | 118 | 443 | 362 | 413 | | | | |
| SWAN ISLAND, WASH. | 346 | 462 | 453 | 84 | 341 | 429 | 404 | 458 | 420 | 458 | 423 | 122 | 106 | 403 | 480 | 485 | 390 | 315 | 478 | 508 | 413 | 487 | 364 | 440 | 618 | 351 | 293 | 401 | | | | |
| TALLAHASSEE, FLORIDA | 158 | 253 | 258 | 418 | 451 | 303 | 379 | 366 | 312 | 404 | 324 | 390 | 423 | 406 | 260 | 88 | 131 | 319 | 357 | 455 | 480 | 439 | 236 | 337 | 233 | 491 | 480 | 302 | | | | |
| TAMPA, FLORIDA | 307 | 19 | 113 | 485 | 434 | 507 | 371 | 450 | 356 | 467 | 379 | 318 | 461 | 454 | 370 | 87 | 300 | 360 | 421 | 431 | 527 | 471 | 381 | 422 | 187 | 539 | 536 | 491 | | | | |
| TUCSON, ARIZONA | 282 | 401 | 363 | 279 | 348 | 382 | 375 | 393 | 252 | 245 | 286 | 409 | 384 | 359 | 436 | 443 | 444 | 442 | 450 | 408 | 311 | 418 | 425 | 415 | 422 | 341 | 391 | 427 | | | | |
| WAKE ISLAND, PACIFIC | 483 | 499 | 506 | 483 | 324 | 406 | 497 | 405 | 479 | 457 | 440 | 420 | 452 | 409 | 304 | 510 | 444 | 507 | 513 | 537 | 373 | 429 | 555 | 545 | 299 | 551 | 574 | 589 | | | | |

Note.--Langley is the unit used to denote one gram calorie per square centimeter.

Values with an asterisk are interpolated.

NET RADIATION

FEBRUARY 1970

Net radiation in langley's per day (8 a.m. to 8 a.m.) at Palmer, Alaska

| Date. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | Avg. |
|----------------|-----|-----|-----|----|----|-----|-----|-----|-----|----|-----|-----|-----|----|-----|-----|-----|-----|----|-----|-----|----|----|-----|----|-----|----|----|----|----|----|------|
| Langley's. . . | -22 | -13 | -26 | -1 | 10 | -23 | -36 | -42 | -22 | -4 | -42 | -26 | -35 | 4 | -32 | -11 | -19 | -36 | 28 | -38 | -18 | -5 | 34 | -56 | 29 | -12 | -2 | 40 | | | | -13 |

The measurement is made with a CSIRO FUNK net exchange radiometer over a plot. The figure represents the total incoming minus the total outgoing radiation of all wave lengths.

These data are of an experimental nature and are published as received from the Palmer Exp. Station. The instrument with which they were measured has not been checked by the ESSA, Weather Bureau

SOLAR ULTRA-VIOLET RADIATION DATA

Daily totals and monthly average (2900 Å) at Ames, Iowa

| Date. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | Avg. |
|----------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|------|-------|------|----|----|----|------|
| Langley's. . . | 7.79 | 9.08 | 9.17 | 9.08 | 8.38 | 7.89 | 7.50 | 3.75 | 4.41 | 6.90 | 4.24 | 5.52 | 8.29 | 4.54 | 8.19 | 9.47 | 9.47 | 5.42 | 10.75 | 10.36 | 10.36 | 10.65 | 10.85 | 10.65 | 13.62 | 8.48 | 11.05 | 5.82 | | | | 8.27 |

These data are from an U - V Eppley total ultra violet sensor and Speedomax H (Leeds Northrup) Recorder. It is at the same location (Agronomy Building, Iowa State University, Ames) as the published total solar radiation instrumentation. This instrument has not been checked by the ESSA, Weather Bureau.

TOTAL OZONE DATA

These provisional ozone data are obtained from measurements made with a Dobson ozone spectrophotometer, and are applicable approximately to local apparent noon. The data are presented in the code . S 4 2 2 defined in the August 1962 WMO circular entitled "PUBLICATION OF DATA FOR METEOROLOGICAL RESEARCH, WORLD OZONE DATA."

Units: Milli-atmos-cms.

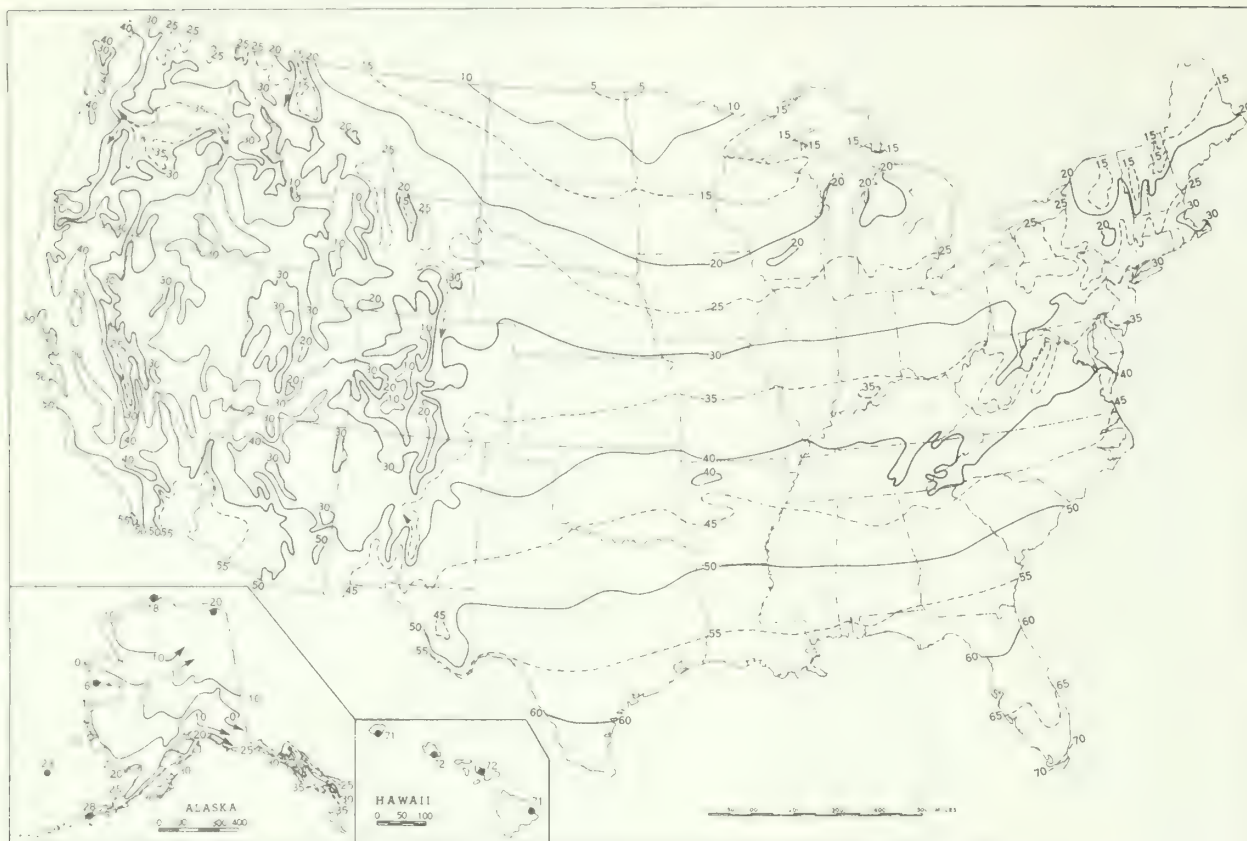
| Station | Day of month | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Mean C | |
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Data will be delayed

The specific station identifier measures the total amount of ozone in the atmosphere, i.e., the amount contained in a vertical column extending from ground level to the top of the atmosphere. The amount of the station identifier is expressed in terms of a thickness of a layer of air at standard temperature and pressure (1013 mb, 15°C) which would contain the same amount of ozone as the actual atmosphere.

The station identifier measures the total amount of ozone in the atmosphere, i.e., the amount contained in a vertical column extending from ground level to the top of the atmosphere. The amount of the station identifier is expressed in terms of a thickness of a layer of air at standard temperature and pressure (1013 mb, 15°C) which would contain the same amount of ozone as the actual atmosphere.

Chart 1. A. Normal Daily Average Temperature (°F. 1931-60), February



B. Temperature Departure from 30 - Year Mean (°F 1931-60), February 1970.

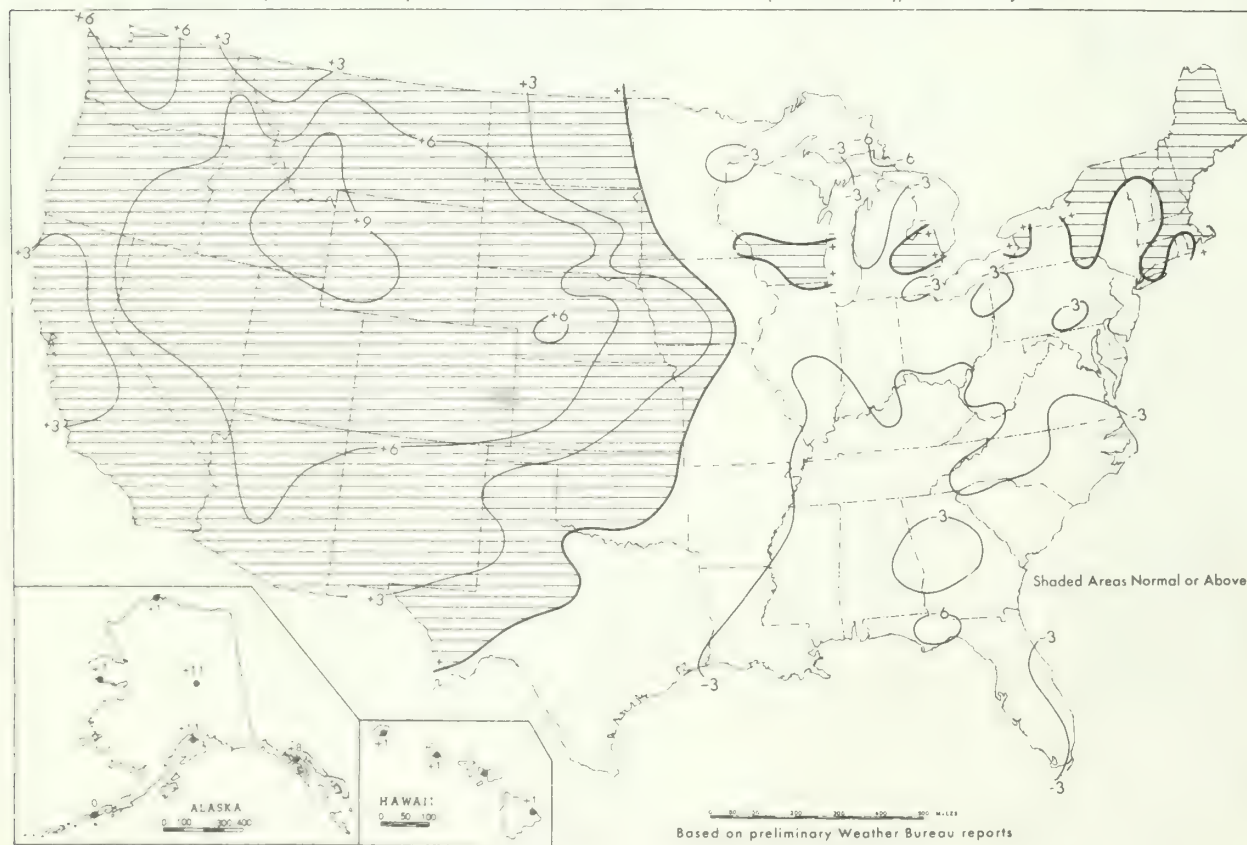


Chart II. Total Precipitation (Inches), February 1970.

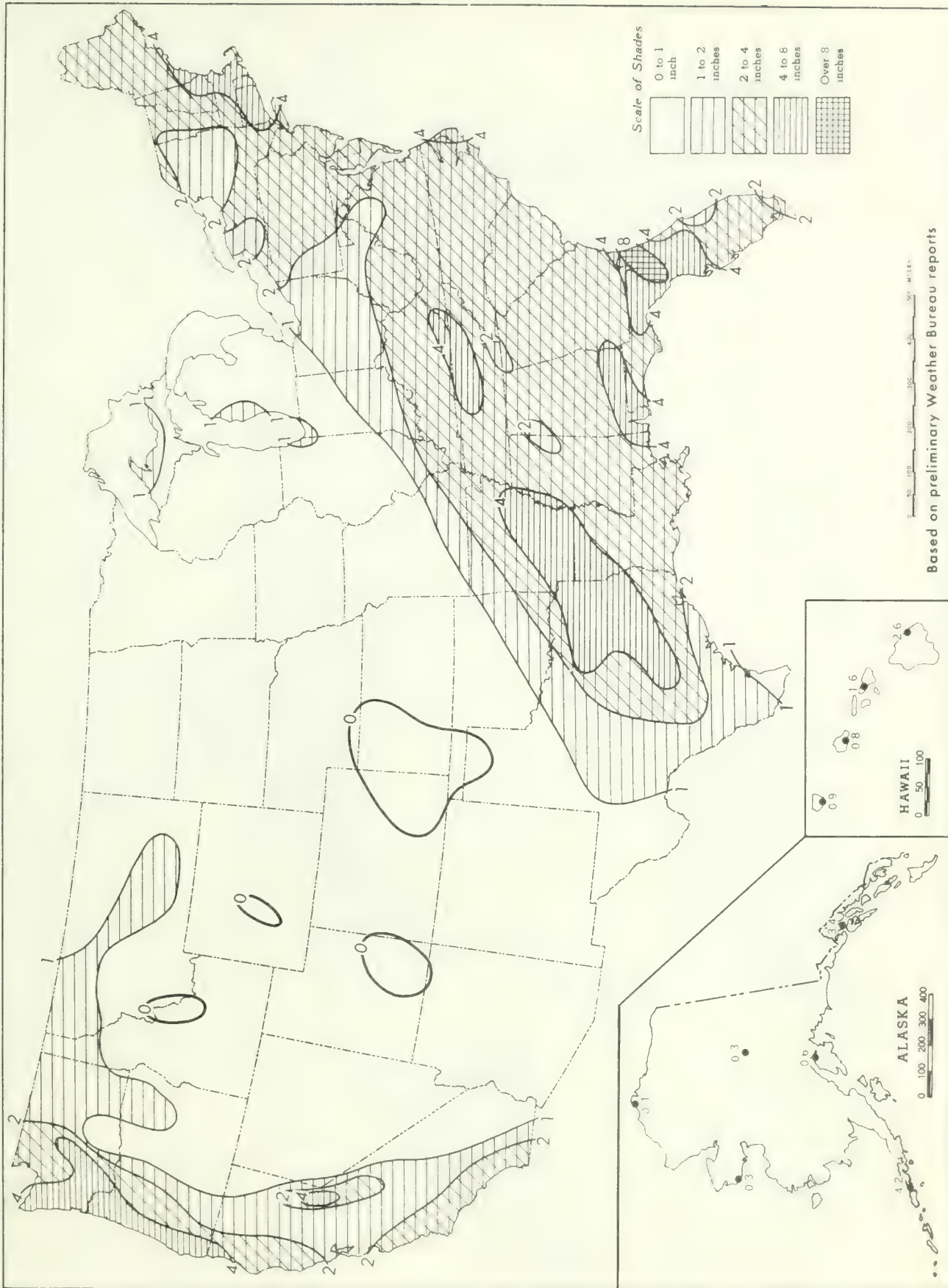


Chart III. Percentage of Normal Precipitation, February 1970.

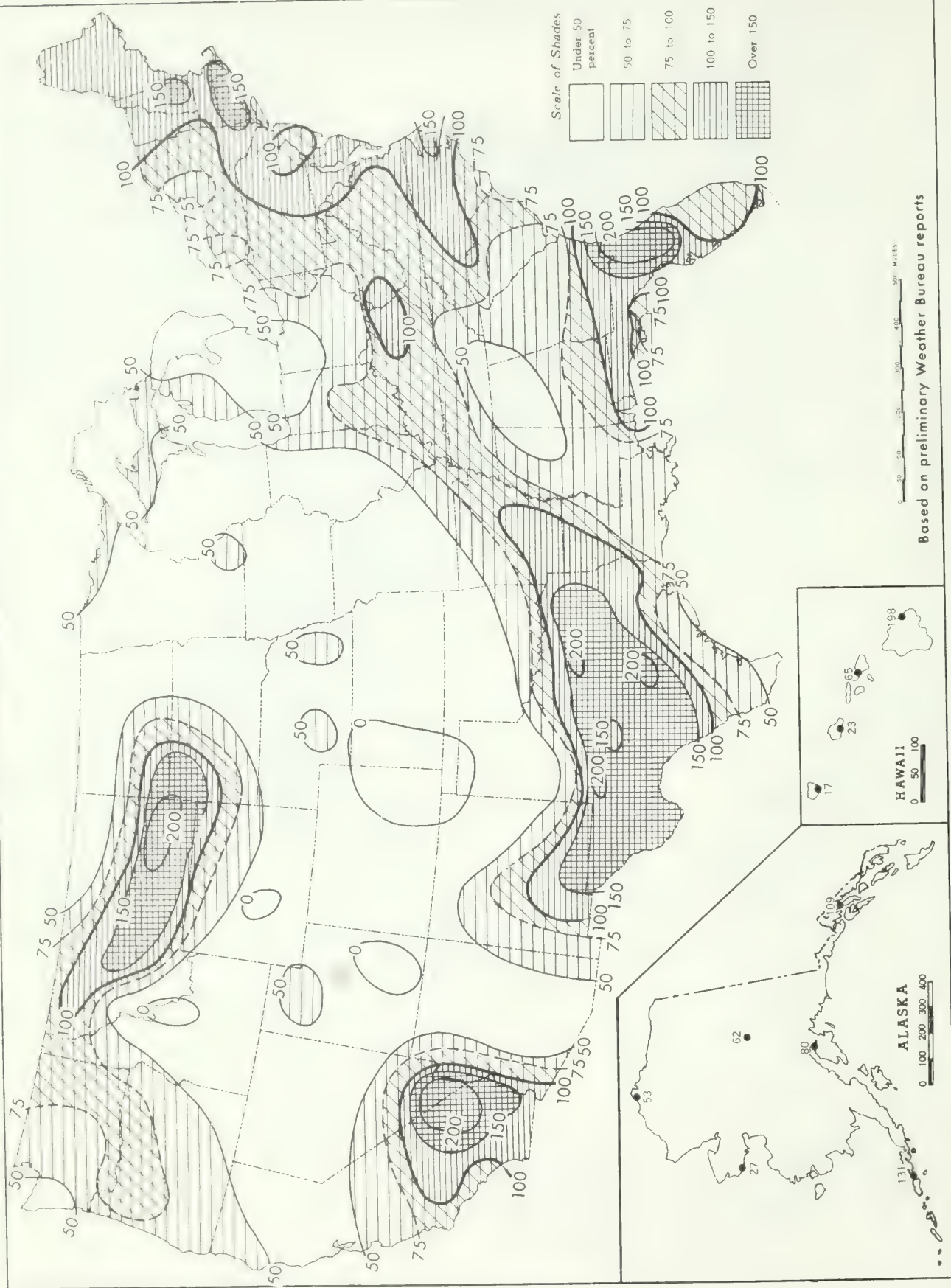
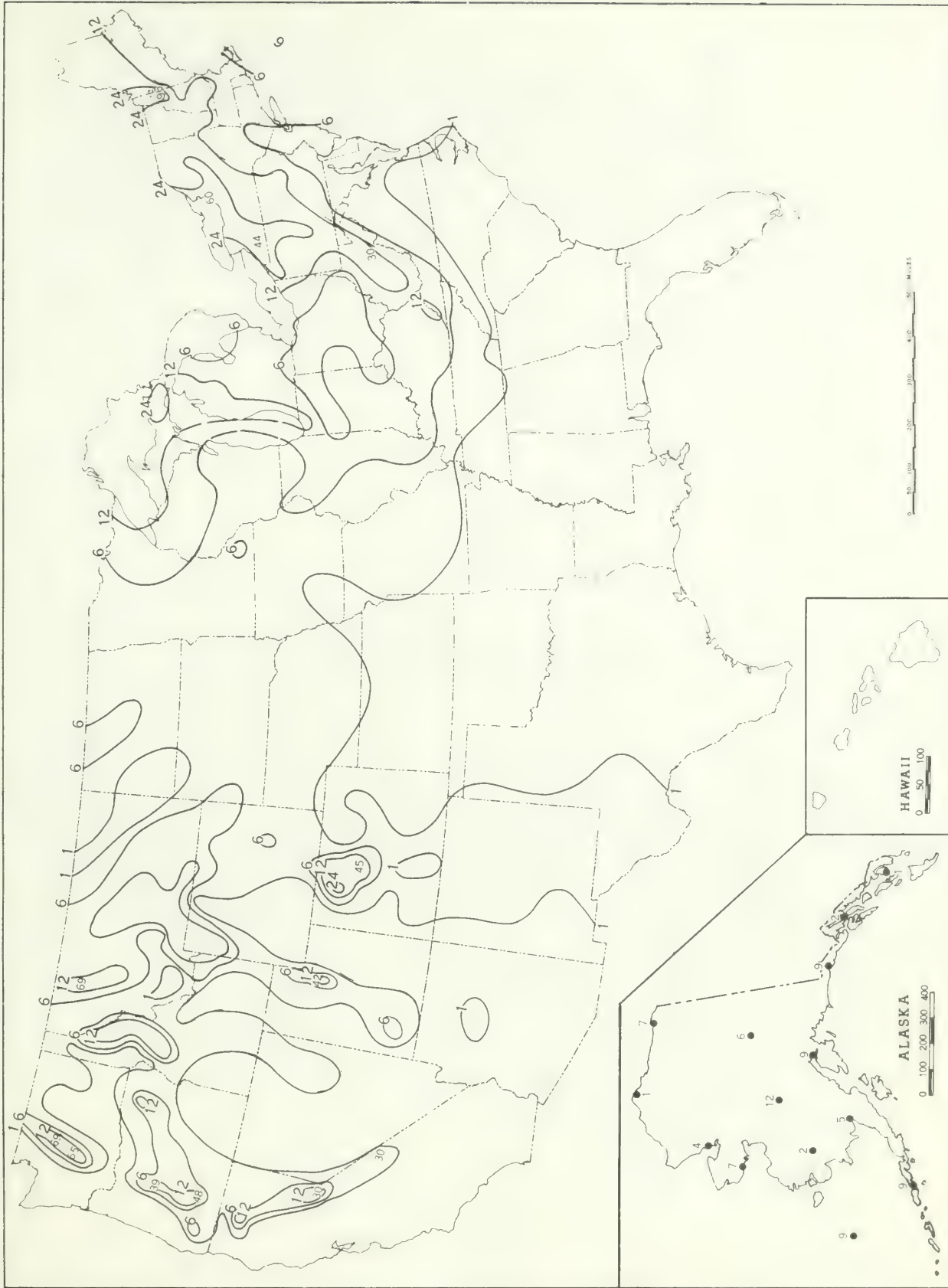
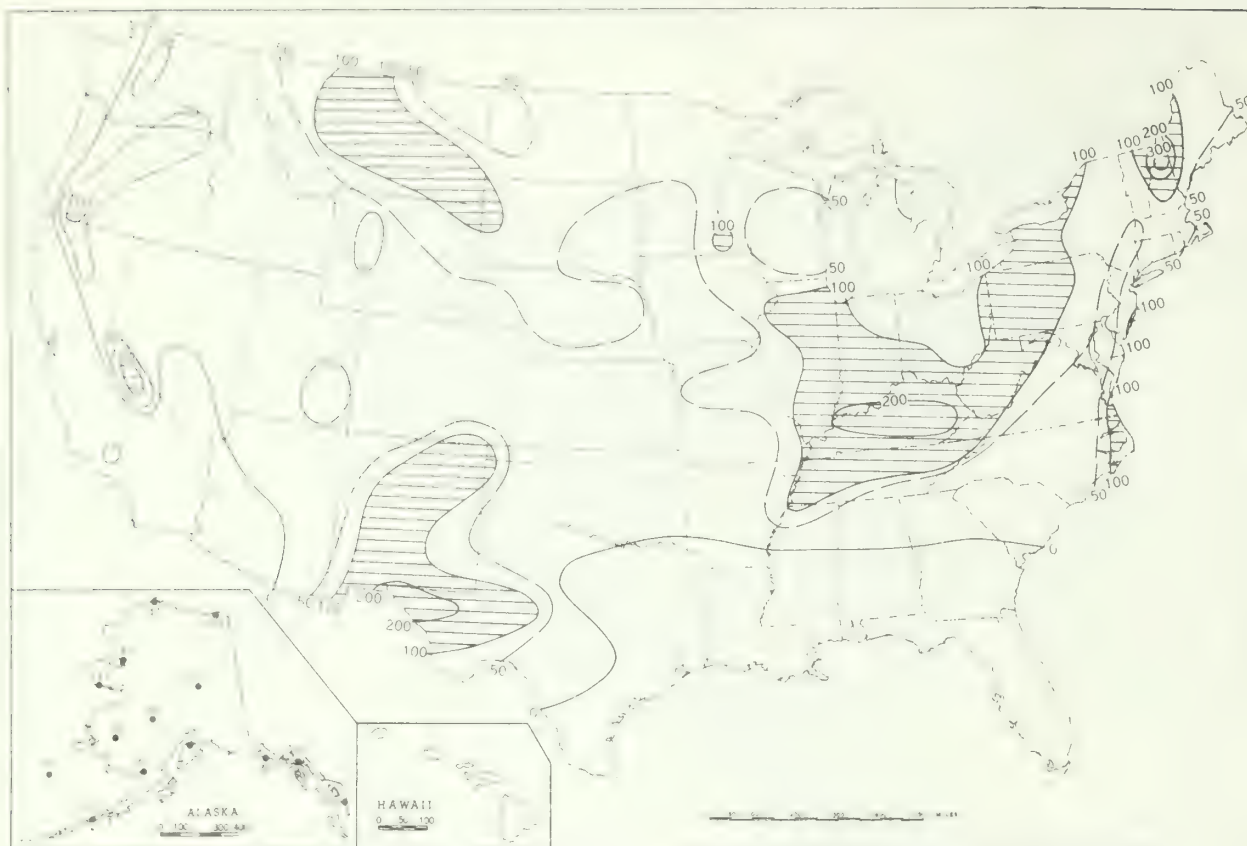


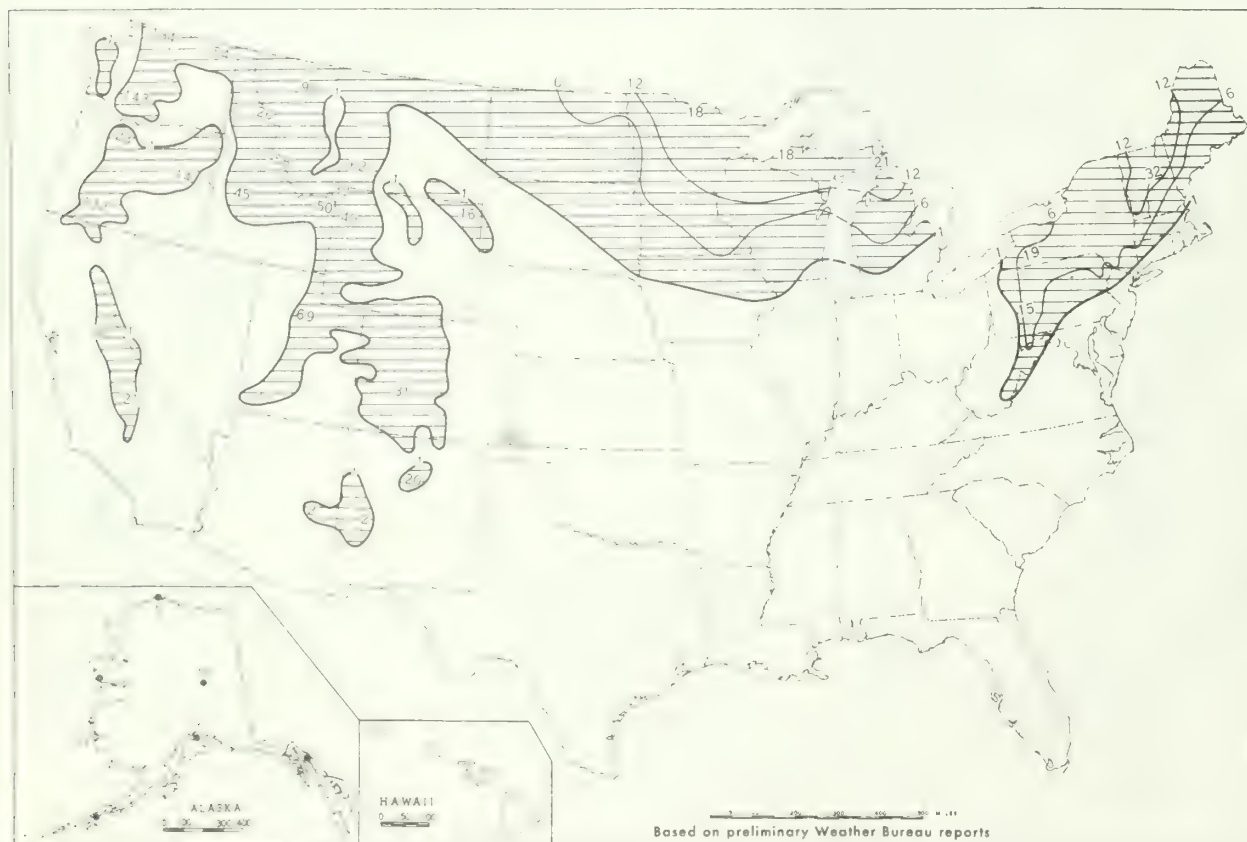
Chart IV. Total Snowfall (Inches), February 1970.



This is the total of unmelted snowfall recorded during the month at Weather Bureau and selected cooperative stations. This Chart and Chart V are published only for the months of November through April, although of course there is some snow at higher elevations, particularly in the far West, earlier and later in the year.



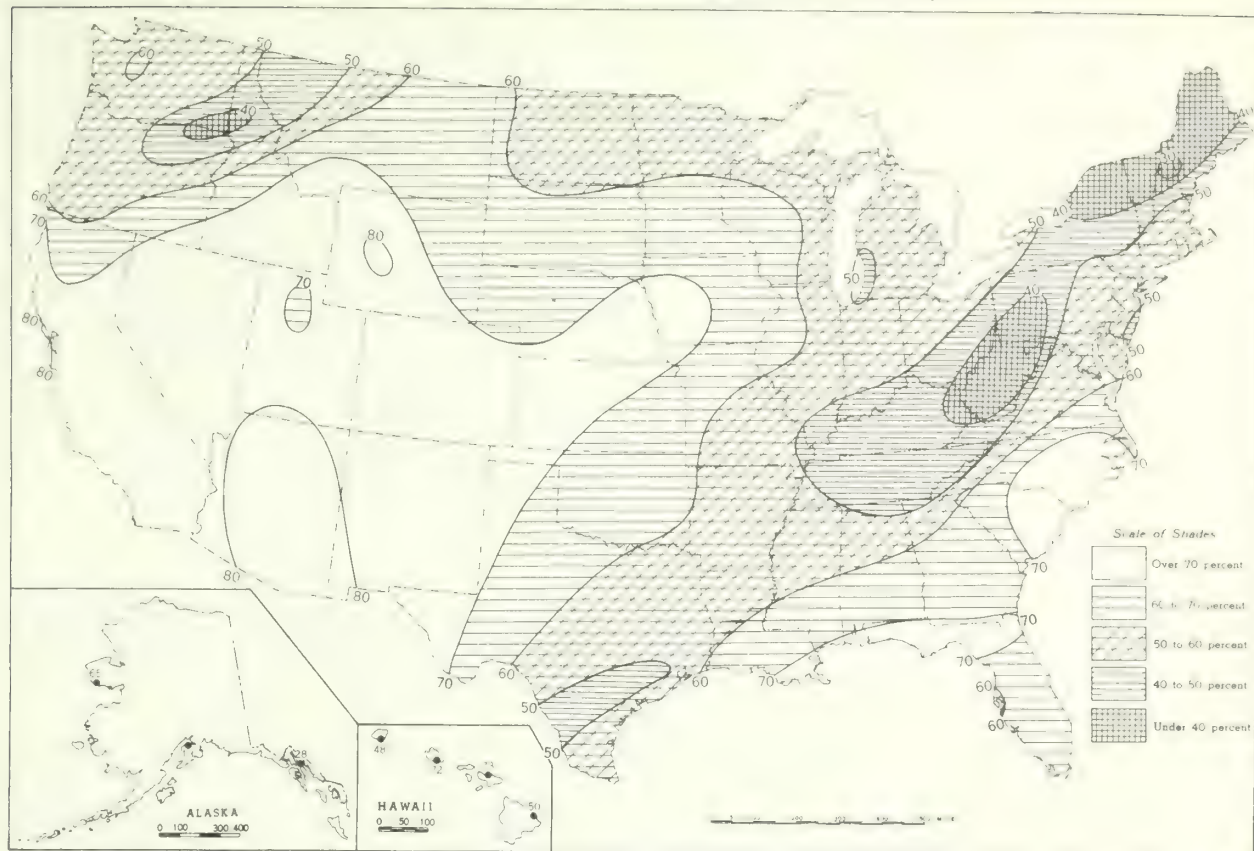
B. Depth of Snow on Ground (Inches), 7:00 a.m. E. S. T., February 23, 1970.



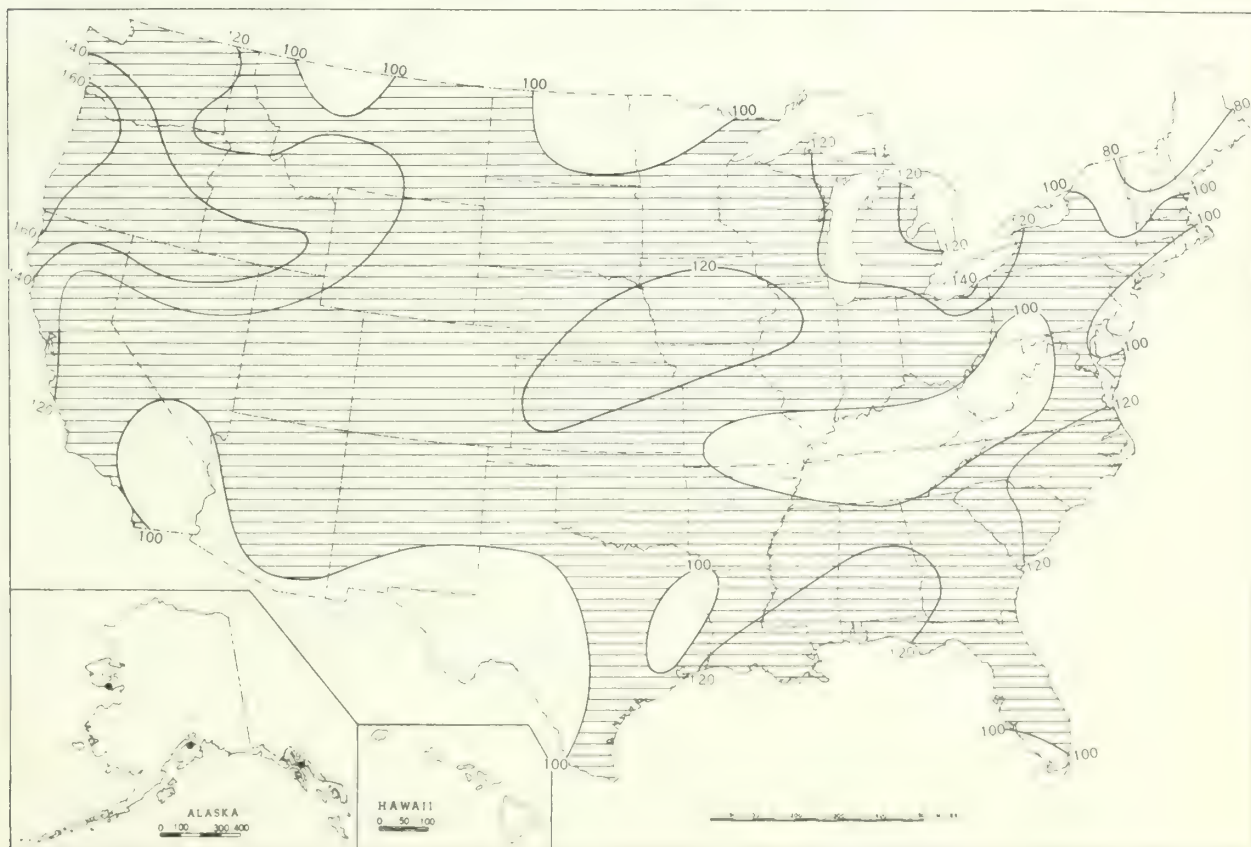
A. Amount of mean monthly snowfall is computed for Weather Bureau stations having at least 10 years of record.

B. Shows depth currently on ground at 7:00 a.m. E.S.T., of the Monday nearest the end of the month.

Chart VI. A. Percentage of Possible Sunshine, February 1970.

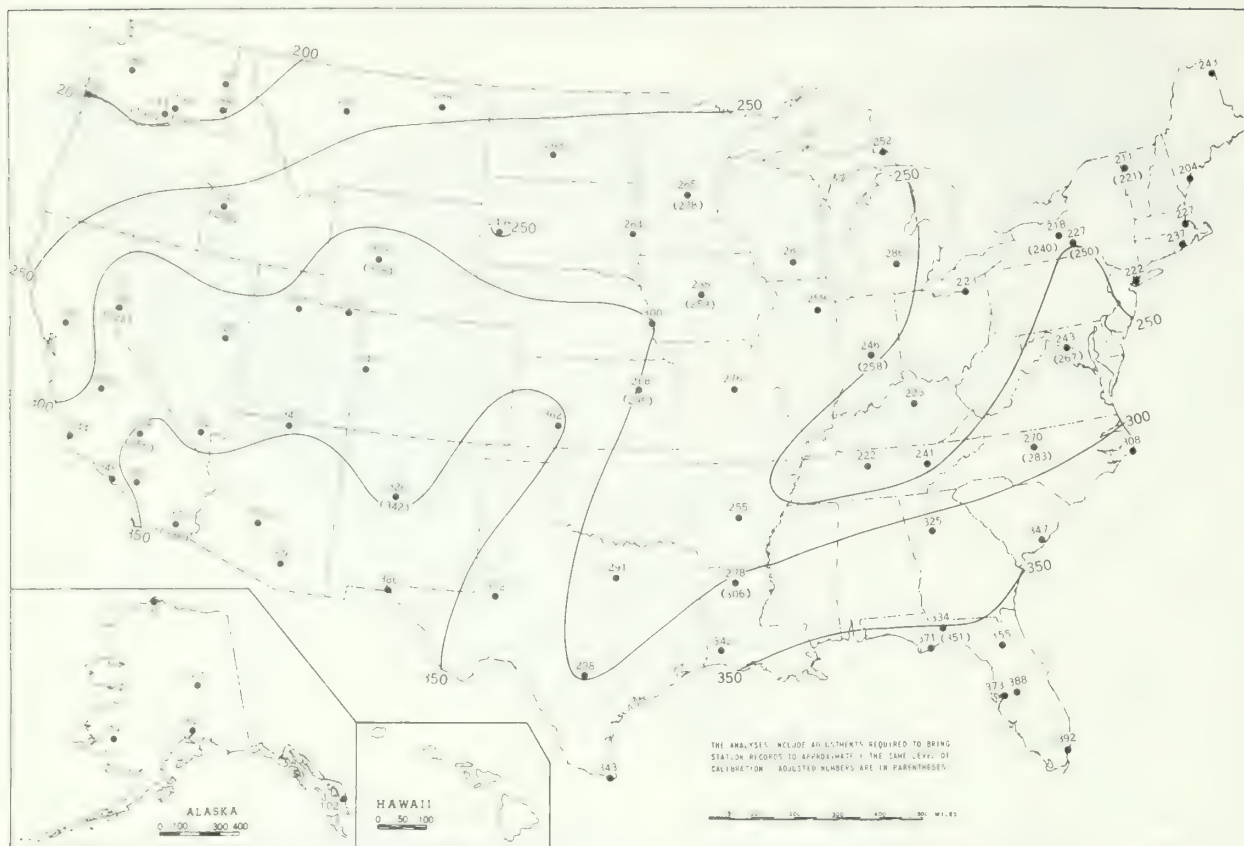


B. Percentage of Mean Monthly Sunshine, February 1970.

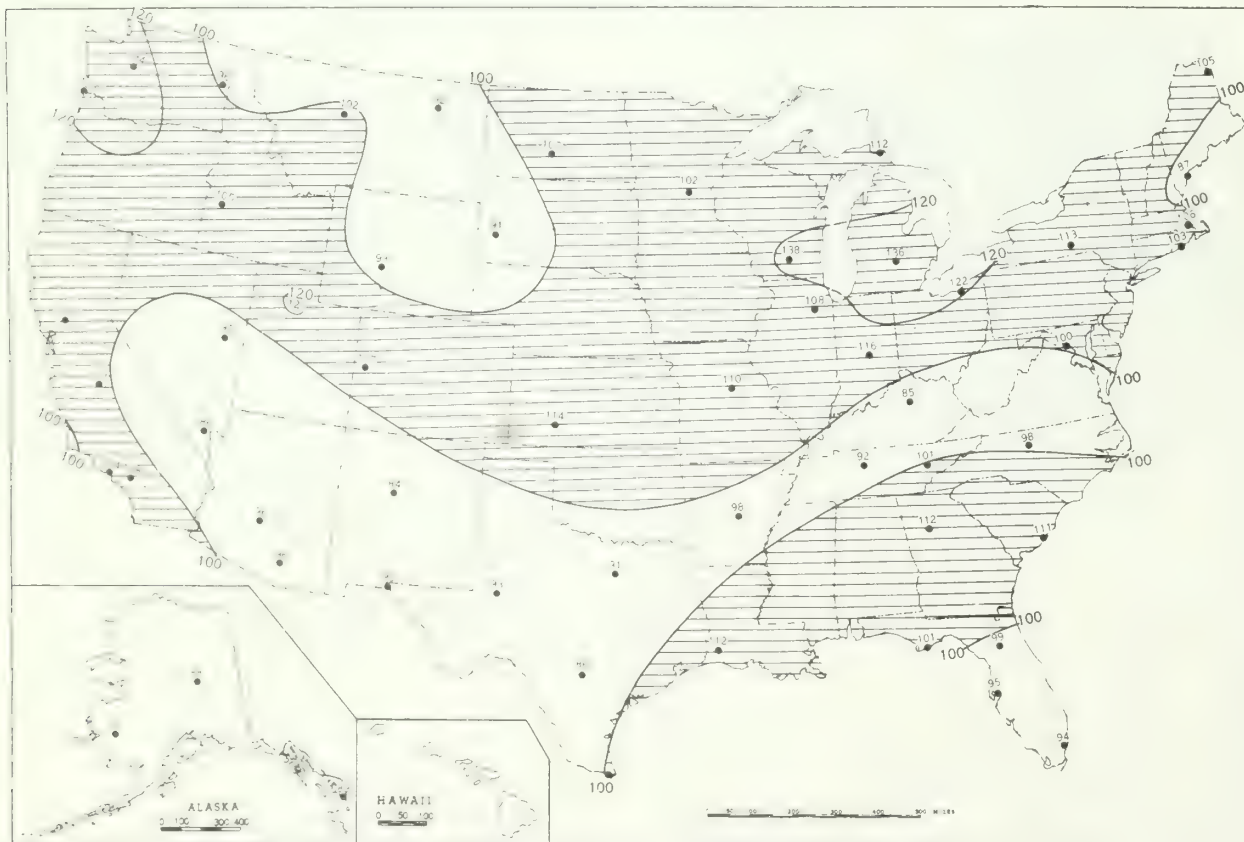


A. Computed from total number of hours of observed sunshine in relation to total number of possible hours of sunshine during month. B. Means are computed for stations having at least 10 years of record.

Chart VII. A. Average Daily Values of Solar Radiation, Langleys, February 1970.

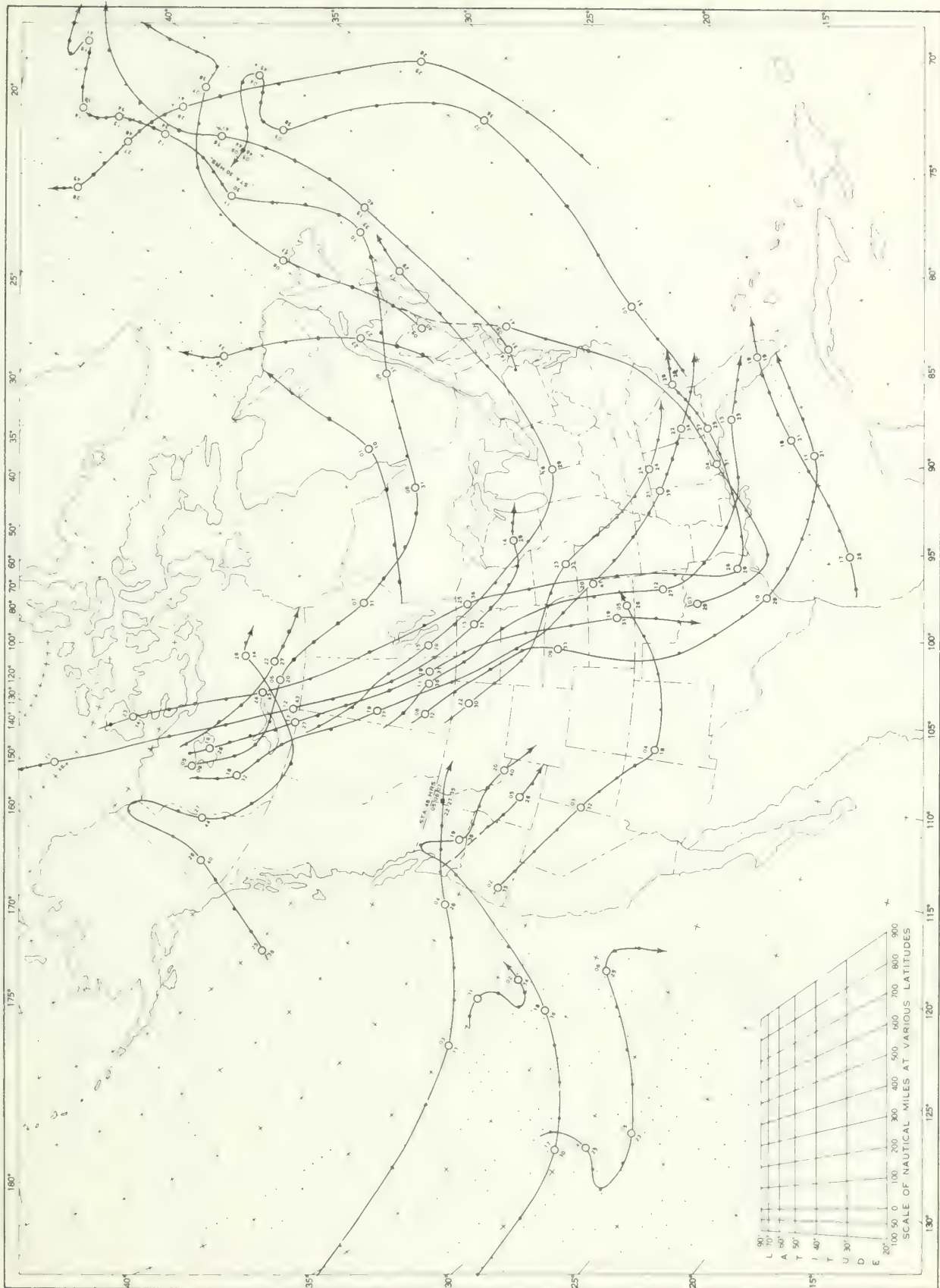


B. Percentage of Mean Daily Solar Radiation, February 1970.



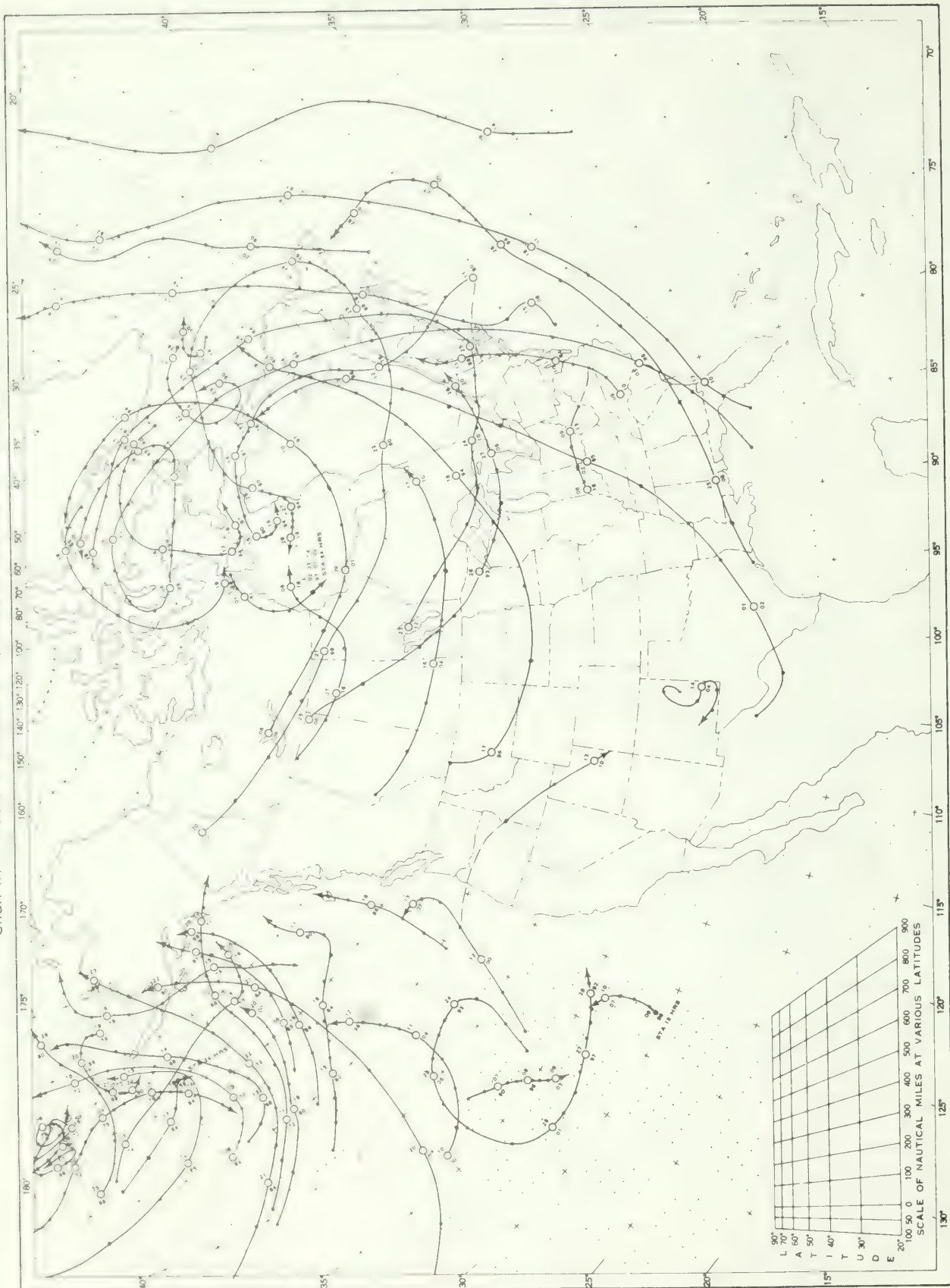
A. Mean daily solar radiation, direct + diffuse, received on a horizontal surface in langleys (1 langley = 1 gm. cal. cm.⁻²) and recorded in International Pyrheliometer Scale of 1956. B. Percentage of the mean based on at least 5 years of record during the period 1950-60, and corrected to the International Pyrheliometer Scale of 1956.

Chart VIII. Tracks of Centers of Anticyclones at Sea Level, February 1970.



Circle indicates position of center at 7:00 a.m. E.S.T. Figure above circle indicates date, figure below, pressure to nearest millibar. Dots indicate intervening 6-hourly positions. Squares indicate position of stationary center for period shown. Dashed line in track indicates reformation at new position. Only those centers which could be identified for 24 hours or more are included.

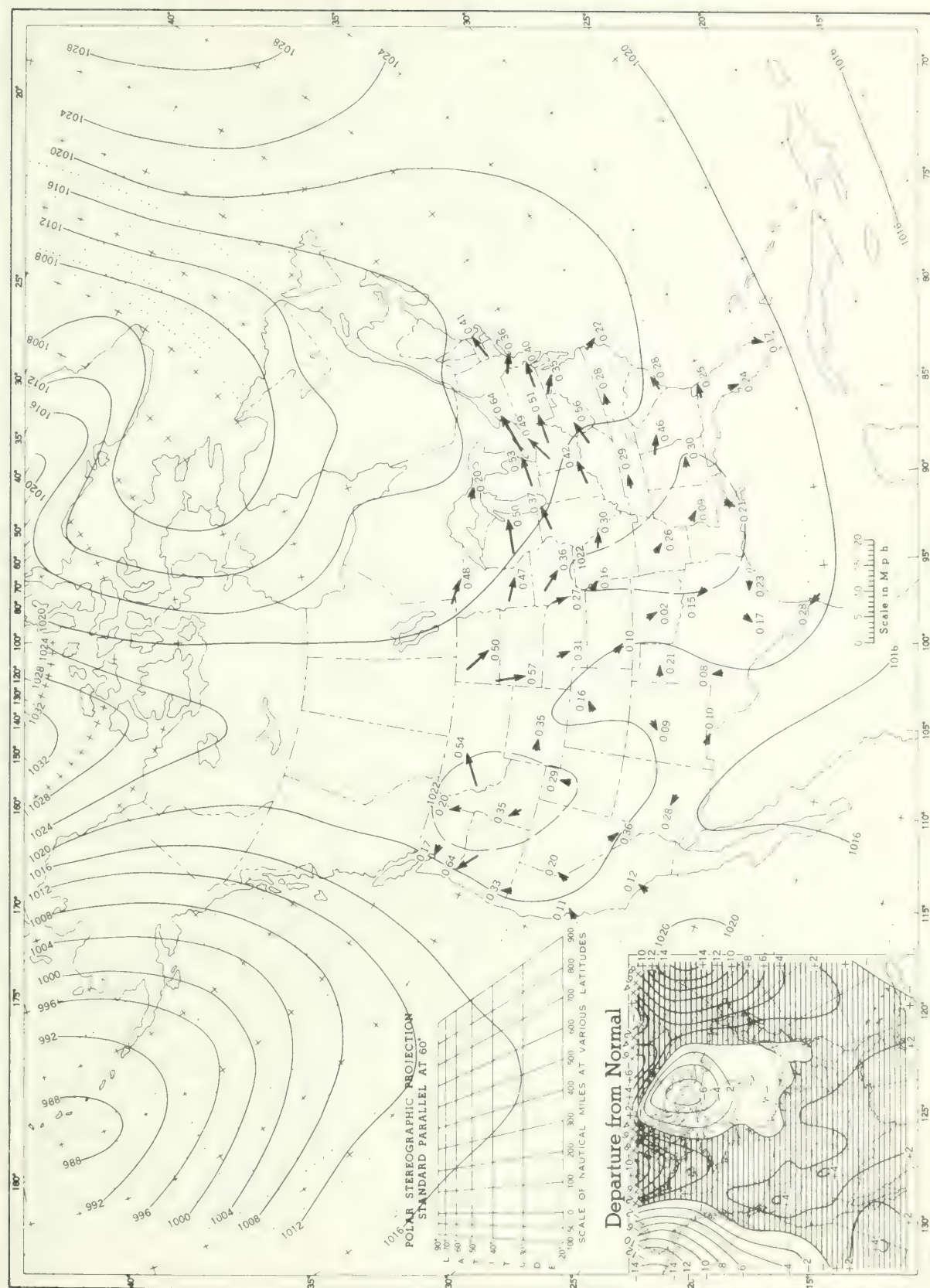
Chart IX Tracks of Centers of Cyclones at Sea Level, February 1970.



Circle indicates position of center at 7:00 a.m. E.S.T. Figure above circle indicates date, figure below, pressure to nearest millibar.
 Dots indicate intervening 6-hourly positions. Squares indicate position of stationary center for period shown. Dashed line in track indicates reformation at new position. Only those centers which could be identified for 24 hours or more are included.

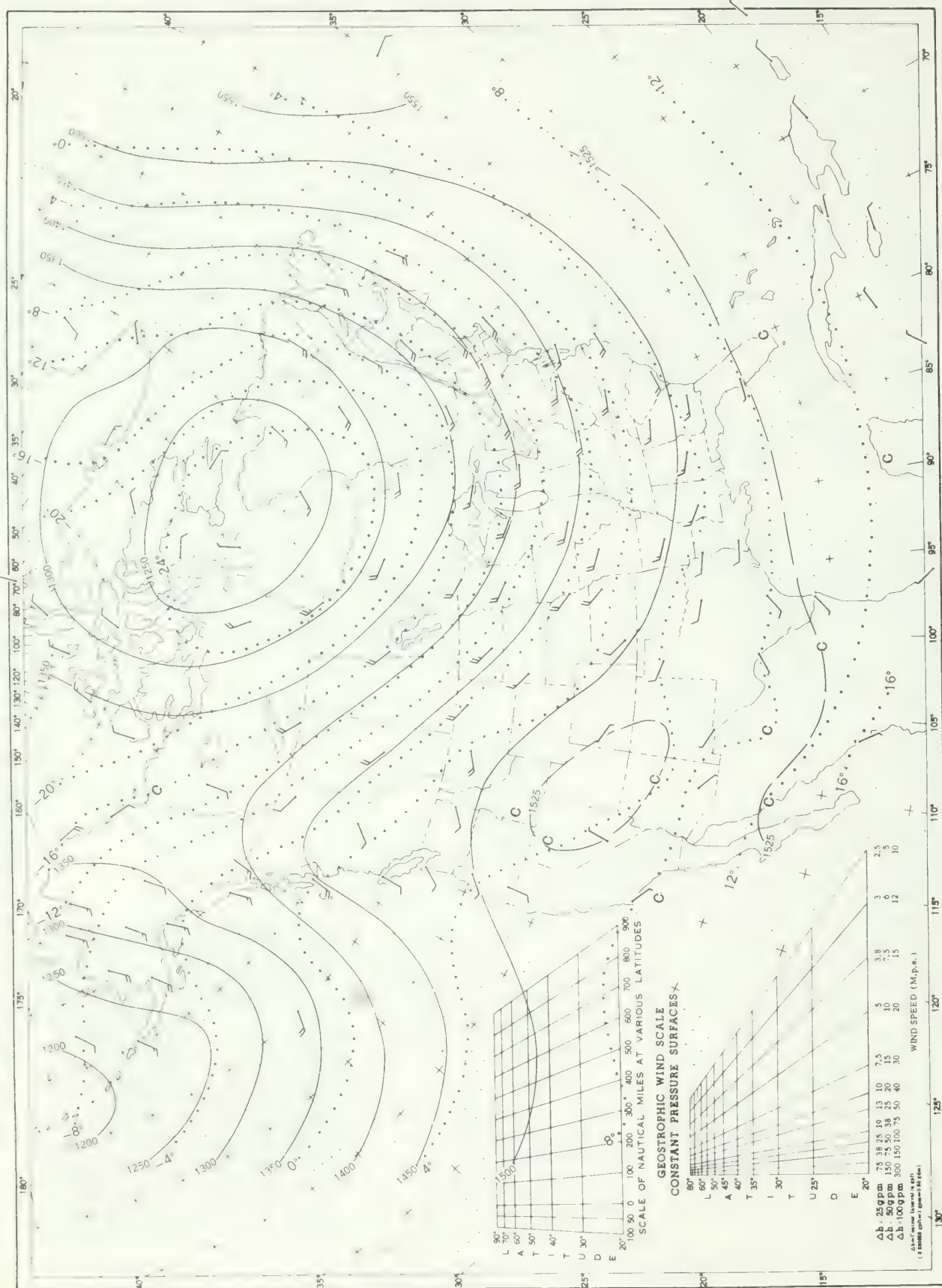
Chart X. Average Sea Level Pressure (mb) and Resultant Surface Wind, February 1970. Inset: Departure of

Average Pressure (mb) from Normal, February 1970.



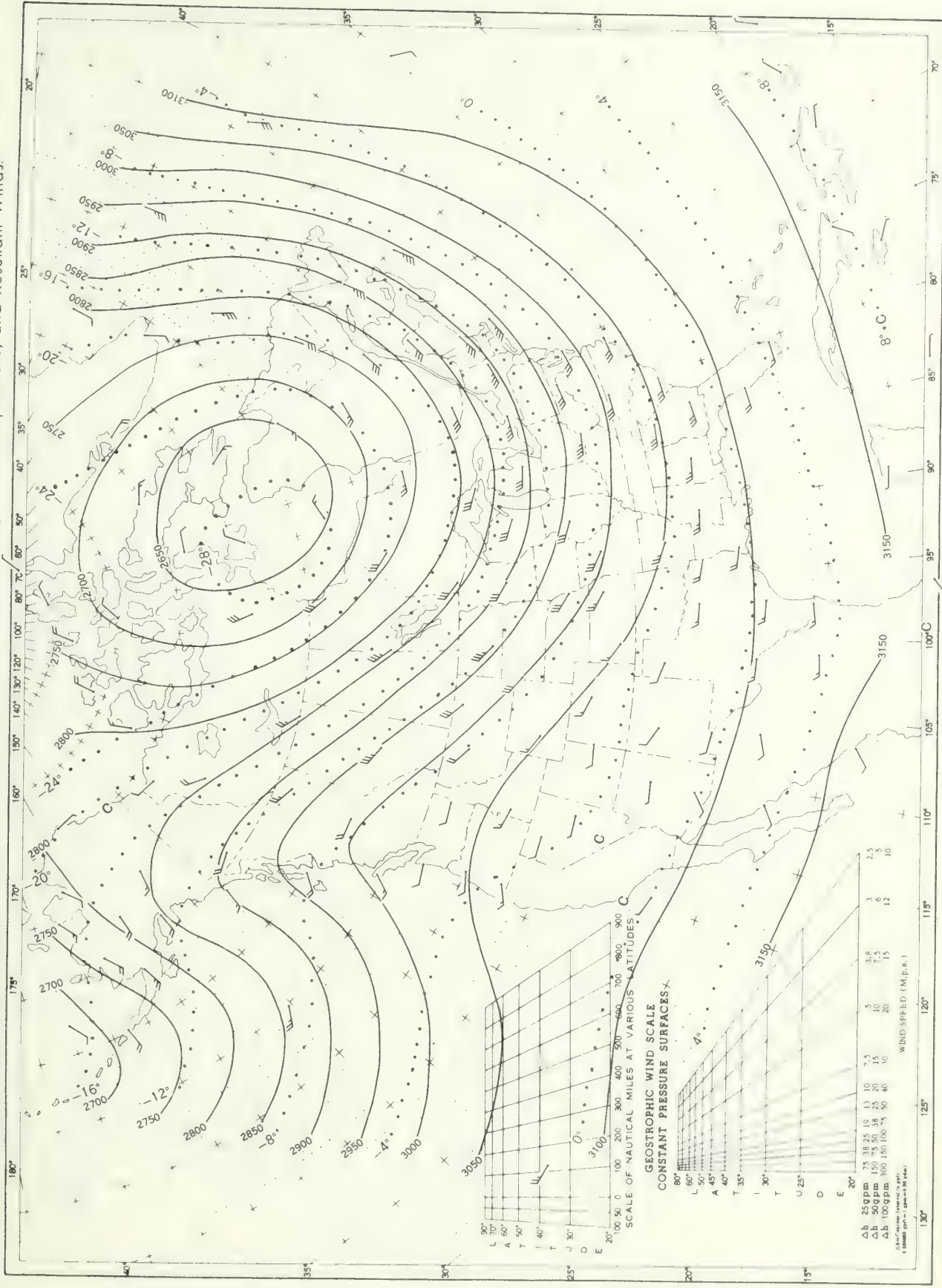
Average sea level pressures are obtained from eight daily 3 hourly observations. Resultant wind directions and speeds are shown by arrows. (Constant ratios resultant speed-average speed) are shown to two decimal places. Pressure normals are computed for stations having at least 10 years of record and for 10° intersections in a diamond grid over the oceans.

Chart XI 850-mb Surface, 1200 GMT, February 1970. Average Height and Temperature, and Resultant Winds



Height in geopotential meters (1 g.p.m. = 0.98 dynamic meters). Temperature in °C. Wind speed in meters per second; flag represents 25mps, full feather 5 mps, and half feather 2.5 mps. All wind data are based on rawin observations.

Chart XII. 700-mb. Surface, 1200 GMT, February 1970. Average Height and Temperature, and Resultant Winds.



Height in geopotential meters (1 g.p.m. = 0.98 dynamic meters). Temperature in °C. Wind speed in meters per second; flag represents 25 mps, full feather 5 mps, and half feather 2.5 mps. All wind data are based on rawin observations.

Chart XIII 500-mb Surface, 1200 GMT, February 1970. Average Height and Temperature, and Resultant Winds

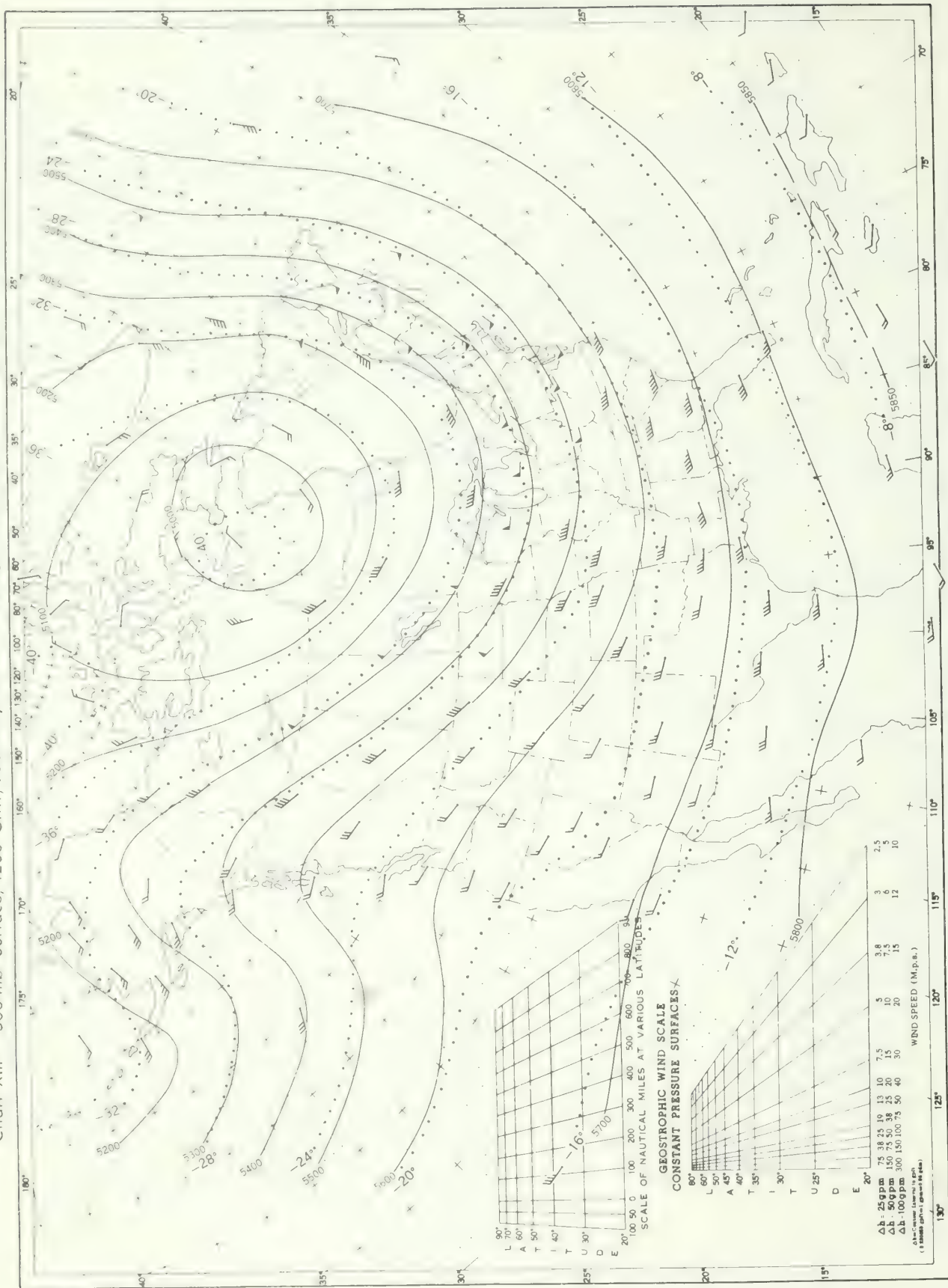
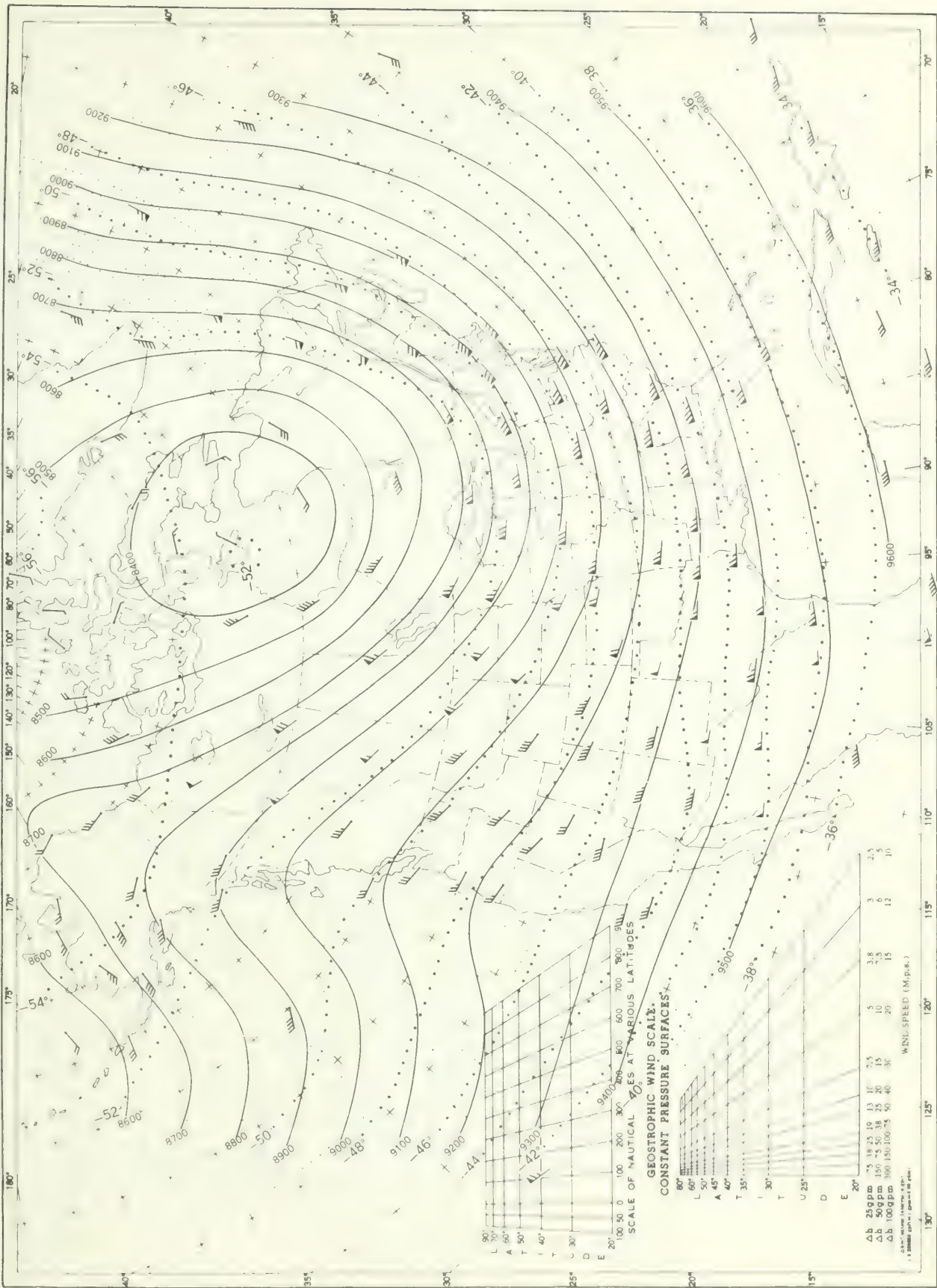


Chart XIV. 300-mb. Surface, 1200 GMT, February 1970.



ential meters (1 g. p. m. = 0.98 dynamic meters). Temperature in °C. Wind speed in meters per second; flag represents 25 mps, full feather 5 mps, and half feather 2.5 mps. All wind data are based on rawin observations.

Chart XV. 200-mb. Surface, 1200 GMT, February 1970. Average Height and Temperature.

Scale of Nautical Miles at Various Latitudes:

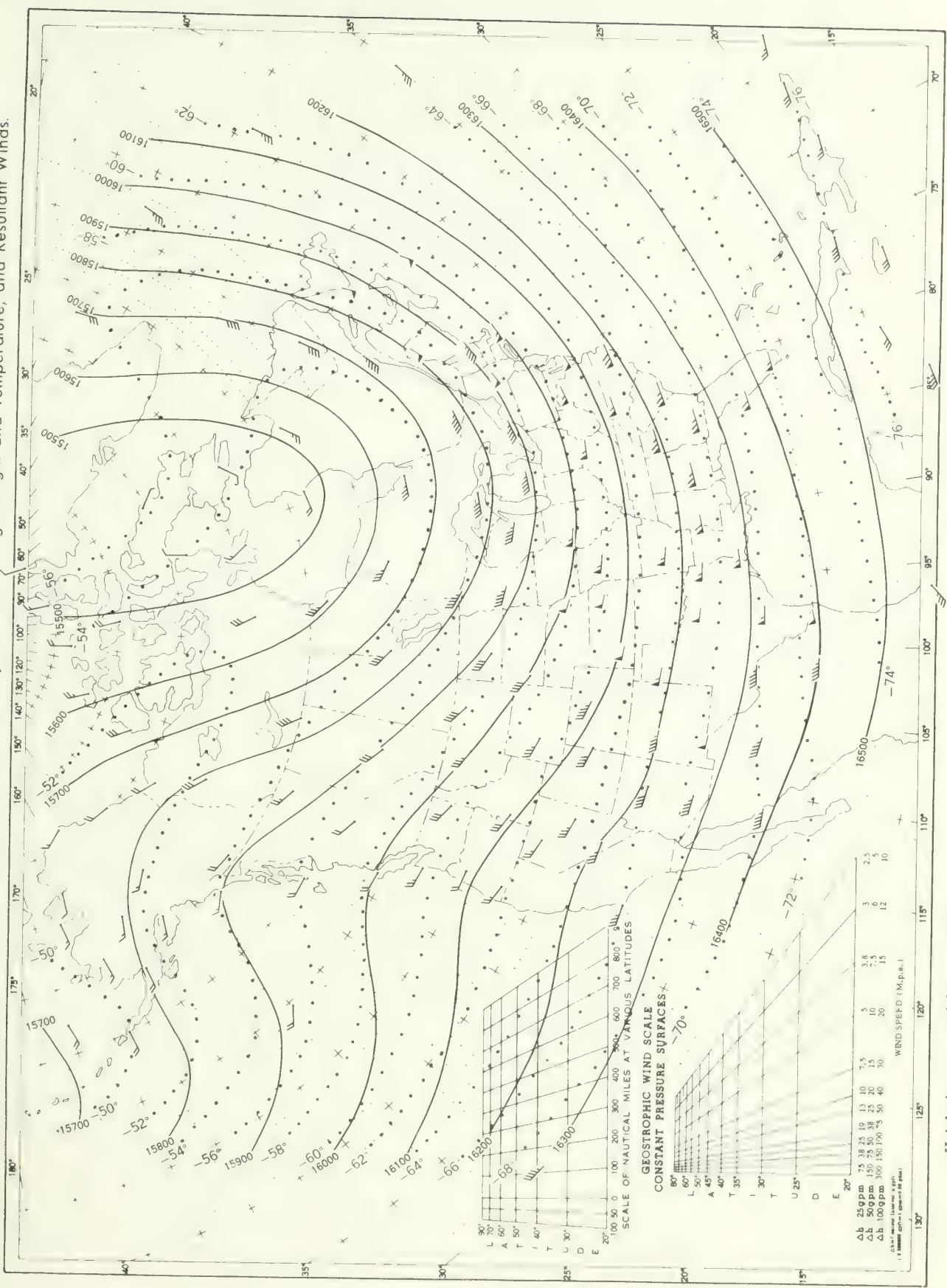
| Latitude | 0 | 100 | 200 | 300 | 400 | 500 | 600 | 700 | 800 |
|----------|---|-----|-----|-----|-----|-----|-----|-----|-----|
| 90° | 0 | 100 | 200 | 300 | 400 | 500 | 600 | 700 | 800 |
| 80° | 0 | 100 | 200 | 300 | 400 | 500 | 600 | 700 | 800 |
| 70° | 0 | 100 | 200 | 300 | 400 | 500 | 600 | 700 | 800 |
| 60° | 0 | 100 | 200 | 300 | 400 | 500 | 600 | 700 | 800 |
| 50° | 0 | 100 | 200 | 300 | 400 | 500 | 600 | 700 | 800 |
| 40° | 0 | 100 | 200 | 300 | 400 | 500 | 600 | 700 | 800 |
| 30° | 0 | 100 | 200 | 300 | 400 | 500 | 600 | 700 | 800 |
| 20° | 0 | 100 | 200 | 300 | 400 | 500 | 600 | 700 | 800 |
| 10° | 0 | 100 | 200 | 300 | 400 | 500 | 600 | 700 | 800 |
| 0° | 0 | 100 | 200 | 300 | 400 | 500 | 600 | 700 | 800 |
| 10°S | 0 | 100 | 200 | 300 | 400 | 500 | 600 | 700 | 800 |
| 20°S | 0 | 100 | 200 | 300 | 400 | 500 | 600 | 700 | 800 |
| 30°S | 0 | 100 | 200 | 300 | 400 | 500 | 600 | 700 | 800 |
| 40°S | 0 | 100 | 200 | 300 | 400 | 500 | 600 | 700 | 800 |
| 50°S | 0 | 100 | 200 | 300 | 400 | 500 | 600 | 700 | 800 |
| 60°S | 0 | 100 | 200 | 300 | 400 | 500 | 600 | 700 | 800 |
| 70°S | 0 | 100 | 200 | 300 | 400 | 500 | 600 | 700 | 800 |
| 80°S | 0 | 100 | 200 | 300 | 400 | 500 | 600 | 700 | 800 |
| 90°S | 0 | 100 | 200 | 300 | 400 | 500 | 600 | 700 | 800 |

Geostrophic Wind Scale:

| Wind Speed (M.P.H.) | 0 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 | 120 | 130 | 140 | 150 | 160 | 170 | 180 | 190 | 200 |
|---------------------|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 0 | 0 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 | 120 | 130 | 140 | 150 | 160 | 170 | 180 | 190 | 200 |
| 10 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 | 120 | 130 | 140 | 150 | 160 | 170 | 180 | 190 | 200 | 210 |
| 20 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 | 120 | 130 | 140 | 150 | 160 | 170 | 180 | 190 | 200 | 210 | 220 |
| 30 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 | 120 | 130 | 140 | 150 | 160 | 170 | 180 | 190 | 200 | 210 | 220 | 230 |
| 40 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 | 120 | 130 | 140 | 150 | 160 | 170 | 180 | 190 | 200 | 210 | 220 | 230 | 240 |
| 50 | 50 | 60 | 70 | 80 | 90 | 100 | 110 | 120 | 130 | 140 | 150 | 160 | 170 | 180 | 190 | 200 | 210 | 220 | 230 | 240 | 250 |
| 60 | 60 | 70 | 80 | 90 | 100 | 110 | 120 | 130 | 140 | 150 | 160 | 170 | 180 | 190 | 200 | 210 | 220 | 230 | 240 | 250 | 260 |
| 70 | 70 | 80 | 90 | 100 | 110 | 120 | 130 | 140 | 150 | 160 | 170 | 180 | 190 | 200 | 210 | 220 | 230 | 240 | 250 | 260 | 270 |
| 80 | 80 | 90 | 100 | 110 | 120 | 130 | 140 | 150 | 160 | 170 | 180 | 190 | 200 | 210 | 220 | 230 | 240 | 250 | 260 | 270 | 280 |
| 90 | 90 | 1 | | | | | | | | | | | | | | | | | | | |

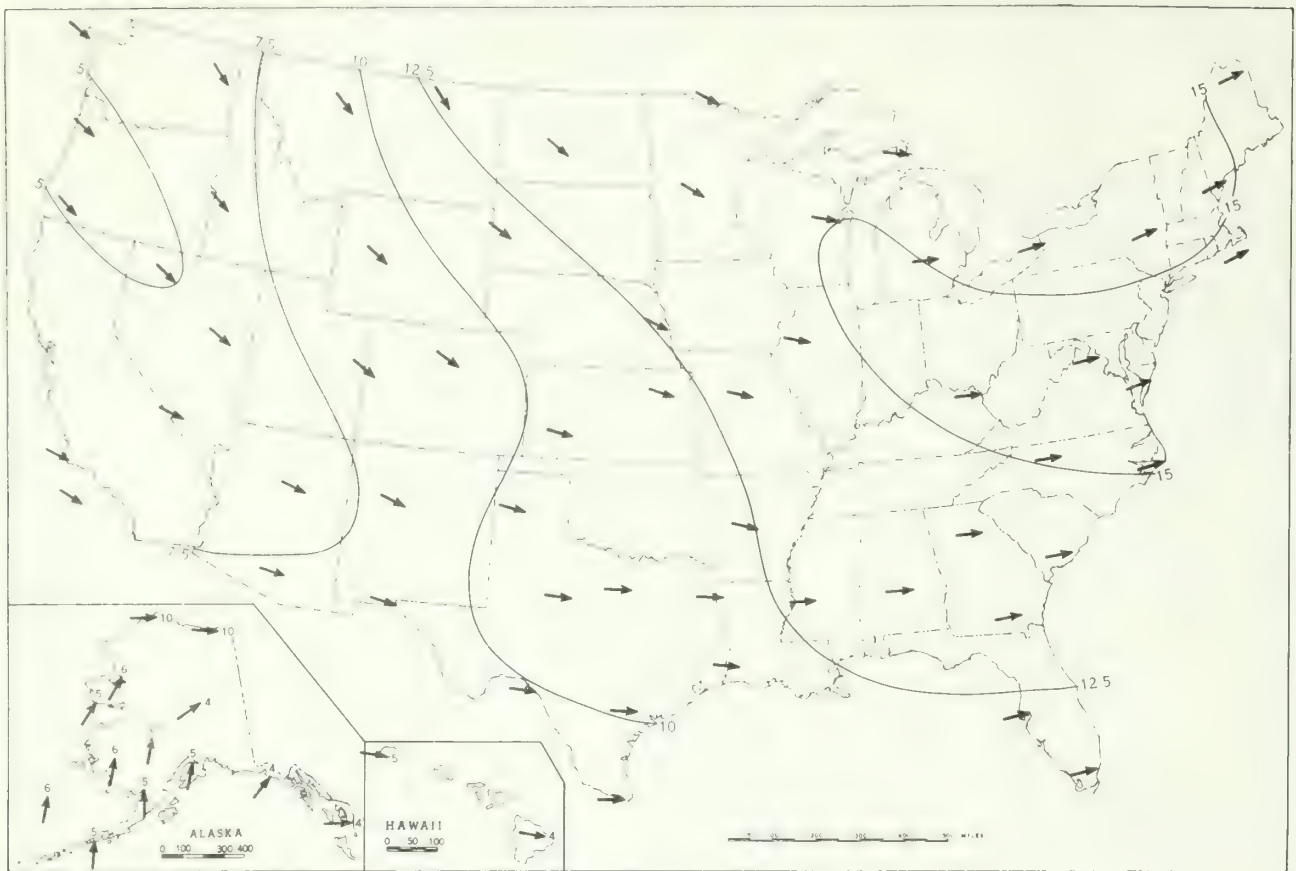
ential meters (1 g.p.m. = 0.98 dynamic meters). Temperature in °C. Wind speed in meters per second. 25 mps, full feather 5 mps, and half feather 2.5 mps. All wind data are based on rawin observations.

Chart XVI. 100-mb. Surface, 1200 GMT, February 1970. Average Height and Temperature, and Resultant Winds.

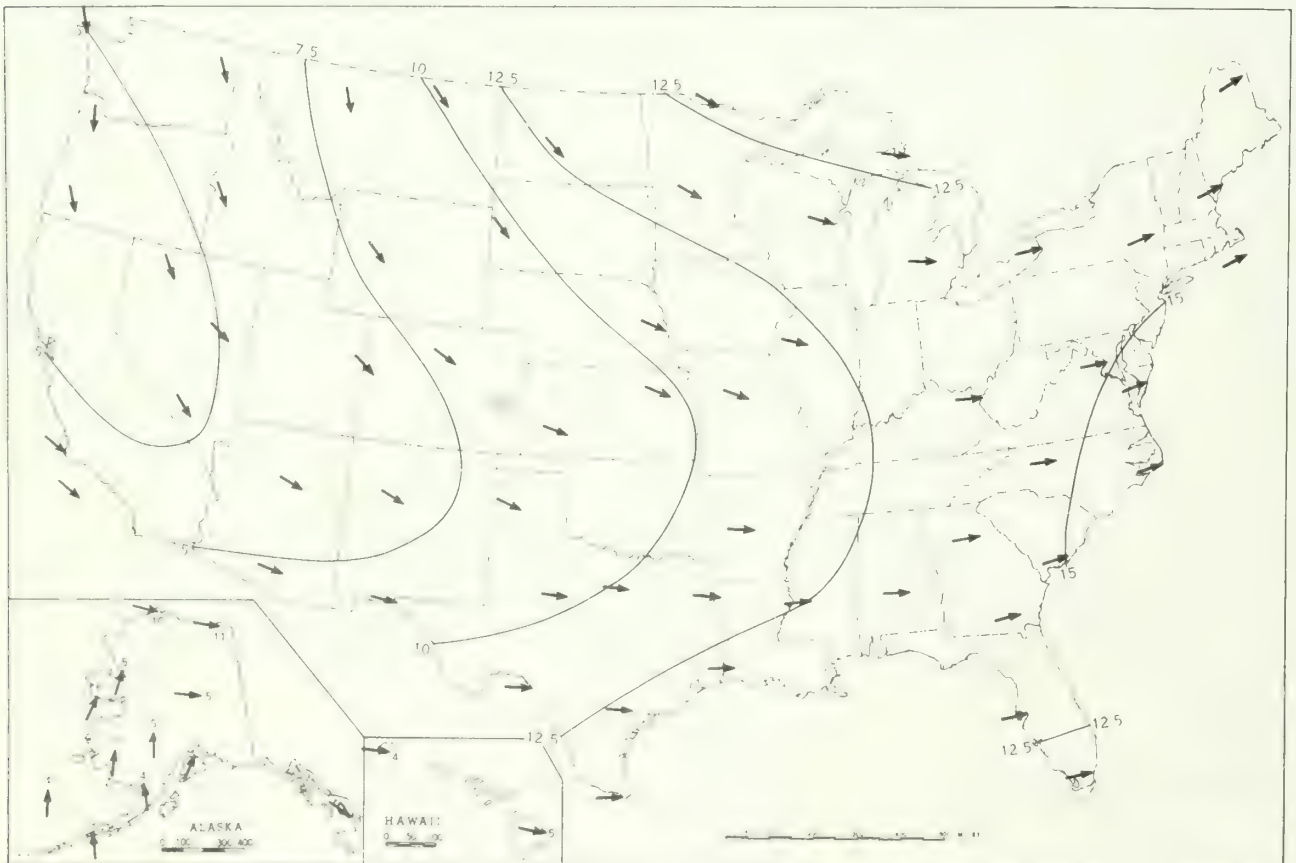


Height in geopotential meters (1 g.p.m. = 0.98 dynamic meters). Temperature in °C. Wind speed in meters per second; flag represents 25 mps, full feather 6 mps, and half feather 2.5 mps. All wind data are based on rawin observations.

Chart XVII. A. 50-mb. Surface, 1200 GMT, February 1970. Resultant Winds.



B. 30-mb. Surface, 1200 GMT, February 1970. Resultant Winds.



Wind speed (isotachs) in meters per second. Arrows show resultant wind direction. All wind data are based on rawin observations.



Climatological Data

NATIONAL SUMMARY

U.S. DEPARTMENT OF COMMERCE
Environmental Science Services Administration
Environmental Data Service



MARCH

1970

Volume 21

No. 3

Wilmington, N.C.

1970

C O N T E N T S

| SURFACE DATA | Page |
|---|------|
| General Summary of Weather Conditions----- | 111 |
| Observed Extremes of Temperature and Precipitation - By States----- | 113 |
| Climatological Data - Stations - English Units----- | 114 |
| Climatological Data - Stations - Metric Units----- | 121 |
| Heating Degree Days----- | 128 |
| Cooling Degree Days----- | 129 |
| Storm Summary----- | 130 |
| General Summary of River and Flood Conditions----- | 131 |
| Flood Stage Data----- | 134 |
| UPPER AIR DATA | |
| Rawinsonde Data----- | 136 |
| SOLAR RADIATION DATA | |
| Solar Radiation Intensities----- | 142 |
| Daily Totals and Monthly Averages----- | 143 |
| Net Radiation----- | 145 |
| Solar Ultra-Violet Radiation----- | 145 |
| TOTAL OZONE DATA----- | 145 |
| CHARTS I-XVII----- | 146 |

NOTE: Delayed data and corrections will be carried in the June and December issues of this publication. An explanatory page "Description of Charts" will be carried in the January and July issues.

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CLIMATOLOGICAL DATA

NATIONAL SUMMARY

Volume 21 No. 3

MARCH 1970

GENERAL SUMMARY OF WEATHER CONDITIONS

HIGHLIGHTS:

1. March temperatures averaged below normal over most of the Nation.
2. It was a stormy month. Recordbreaking snow fell in the West, North, and East, and recordbreaking rain fell in spots in the Deep South.

TEMPERATURE --March temperatures averaged below normal over most of the Nation. The main exceptions were the Far West, Wisconsin, Maine, western North Carolina, South Carolina, Georgia, and parts of Florida. Much of the Great Plains averaged 3° to 7° cooler than normal.

Temperatures averaged above normal over most of the Nation in the first week of March. The exceptions included California where the weather averaged 1° to 5° cooler than normal and our northern border from Puget Sound to Lake Superior where temperatures averaged 1° to 13° below normal. In much of the West, mild weather had continued since early January. A large area from the central Great Plains to the middle Appalachians averaged 6° to 12° warmer than normal in the first week of March. In general, the first week of March was the warmest week in several months over most of the eastern half of the Nation. Cold air pushed southward into Montana, bringing subzero temperatures to much of the State and subfreezing temperatures as far south as the central portions of Arizona and New Mexico. Havre, Mont., registered 20° below zero on the morning of March 4. Another blast of arctic air pushed into the northern Great Plains, dropping the temperatures at Roseau, Minn., to 21° below zero on Saturday, March 7. A quick warmup occurred over the central Great Plains at the beginning of the second week of March. On March 8, the temperature at Kirksville, Mo., climbed from 14° in the morning to 73° in the afternoon. The warm spell was short lived, however. More arctic air poured southward and by the morning of the 8th subfreezing temperatures had pushed southward to the Trans-Pecos in western Texas. Chadron, Nebr., registered 20° below zero on Tuesday morning, March 10. Parts of the northern Great Plains averaged 6° to 12° below normal in the second week of the month.

Temperatures in the third week of March averaged slightly above normal along the western and northern edges of the Nation and in Florida, but below normal over most of the rest of the Nation. This ended the warm spell over much of the West which had lasted for about 2 months. Subzero temperatures occurred in northeastern North Dakota, northwestern Minnesota, and some localities in the central Rocky Mountains. Subfreezing weather occurred as far south as the Mexican border and in northern Florida on one or more mornings about midmonth. Deep snow in Kansas and nearby portions of neighboring States held temperatures down in that area. Some localities remained below freezing for several days. A warming trend in the latter part of the third week of March melted much of the snow and by the end of the week Kansas was enjoying afternoon temperatures in the 50's.

Cold fronts and strong northerly winds kept average

temperatures below normal over most of the Nation in the fourth week of March. Subzero weather occurred in parts of the Dakotas, Minnesota, Wisconsin, and Michigan on 1 or 2 days and subfreezing temperatures pushed far into the Deep South. Atlanta, Ga., registered 32° on the mornings of the 24th and 27th. Most of the area east of the Rocky Mountains averaged 3° to 9° colder than normal in the fourth week of the month. Eastern New York, eastern Pennsylvania, New Jersey, and New England averaged slightly warmer than normal. Recordbreaking cold for so late in the season occurred in parts of the Northeast in the last few days of March. In sharp contrast, mild weather continued in Florida where Orlando registered 92° on the last day of the month.

PRECIPITATION --A storm developed in the central Rocky Mountains early in March and moved eastward into the central Great Plains. It produced numerous heavy thunderstorms and a few tornadoes as it moved into Kansas. A quasi-stationary front stretched from the storm center eastward to Virginia. Mixtures of snow and freezing rain fell in the cold air north of the front. Clouds, with combinations of rain, drizzle, and fog, occurred in the warm, moist air south of the front. A few thunderstorms, some accompanied by hail and high winds, developed in the warm, humid air. Tornadoes occurred in Kansas, Texas, Arkansas, Louisiana, Mississippi, and Alabama. Heavy showers on March 4 caused flooding along some streams in eastern Texas and Arkansas. About the same date, as wet weather continued over the eastern half of the Nation, Pacific storms began shaping up in the West. Heavy rains fell along the lower Oregon coast and to California with snow in the Cascades, high Sierras, and eastward to the Rockies. By the end of the first week of March, the snow had spread eastward across the northern Great Plains and Great Lakes region to New England. A storm in Texas moved eastward, bringing heavy rain to the Gulf States. Storm totals at some localities in Florida ranged up to several inches.

Late winter storms dumped heavy snow in several parts of the Nation in the second week of March. About 1-1/2 feet of snow fell at Hill City, S. Dak., in the Black Hills, in a few hours. West Yellowstone, Mont., received over a foot of new snow, bringing the total depth to 4 feet. Six to 10 inches fell in southern South Dakota, northern Nebraska, and northeastern Iowa before the storm spread eastward to the Great Lakes. Freezing rain, freezing drizzle, and sleet along the southern edge of the snow belt slicked the highways in spots, making travel hazardous.

About the middle of the second week, a storm produced snow from Arizona to Kansas and Arkansas. Six to 10 inches fell in eastern New Mexico and Colorado, 8 inches in the Missouri Ozarks, and 5 inches in the Boston Mountains in northwestern Arkansas. By mid-month the snow area had spread northeastward to southwestern New York, and thunderstorms, some accompanied by hail, were occurring from the lower Mississippi River Valley to the middle Atlantic coast.

Two large storms brought heavy snow in the third

GENERAL SUMMARY OF WEATHER CONDITIONS-Continued

MARCH 1970

week of March. The first of these dumped up to 19 inches of snow in southeastern Kansas, 24 inches in southwestern Missouri, 18 inches in northeastern Oklahoma, and 14 inches in northwestern Arkansas. Rain and heavy local thunderstorms occurred south of the snow belt from central Arkansas and western Tennessee to the central Gulf coast. The second important storm in the third week of March developed in the Far Northwest, intensified as it crossed the northern Rocky Mountains, and dumped heavy snow in southeastern Montana, central Wyoming, northeastern Colorado, northwestern Kansas, and south-central Nebraska. A third disturbance caused heavy thunderstorms and torrential rains across the Southland. It developed in eastern Texas and moved eastward across the Gulf States. It caused flood-producing rains to occur in Mississippi, Alabama, and Georgia, closing some roads and forcing some families to leave their homes. The storm then turned northeastward, bringing snow to the Northeast and Appalachians and rain along the Atlantic coast. Mixtures of snow, sleet, and freezing rain in some places increased the hazards of highway travel.

Snow fell from Michigan to the northern and central Appalachians early in the last week of March, while a Pacific storm moved inland bringing rain to the northern Pacific coast and the inland valleys and snow to the mountains.

It gained strength as it crossed the Rocky Mountains and moved into the central Great Plains. Widespread violent weather occurred on the 25th in connection with this intensifying storm. Tornadoes occurred from Arkansas to Illinois. Heavy snow fell in the North Central States and strong winds piled the snow in deep drifts, slowing or halting transportation and communica-

tion.

March precipitation totals ranged from over 4 inches along portions of the northern Pacific coast to 1 inch 100 to 200 miles inland. Totals exceeded 1 inch over the northern and central Rocky Mountains and in central Arizona. One of the largest amounts fell at Flagstaff, Ariz., where 6.75 inches were recorded. This amount of precipitation exceeded all previous March totals at Flagstaff. The previous record total was 6.05 inches in March 1906. All of the March 1970 precipitation at Flagstaff fell as snow which totaled 67.3 inches. This also set a new record, exceeding the 1952 March snowfall of 44.4 inches. Relatively little snow--only 17.1 inches--had fallen at that station in the 6 months preceding the March storms.

Totals in the Great Basin, most of the northern Great Plains, in New Mexico, and along the Rio Grande were generally less than 1 inch. Totals over the northeastern quarter of the Nation ranged generally from 1 inch to around 3 inches. Much of the Southeast received more than 4 inches of rain during the month. One of the largest totals, 18.58 inches, fell at Fort Myers. This amount far exceeded any previous March total of record at Fort Myers. The largest March amount known to have fallen at Fort Myers was 11.77 inches in March 1852. Of the March 1970 total, 7.92 inches fell in the 24-hour period ending at 12:30 p.m. on the 26th. Several spots in the Southeast received more than 8 inches.

March rainfall over most of the Nation ranged from 50% to 150% of normal. A few scattered spots received more than twice their March normals. The precipitation totals at Flagstaff, Ariz., and Fort Myers, Fla., were 453% and 715% of their respective March normals.

OBSERVED EXTREMES OF TEMPERATURE AND PRECIPITATION -- BY STATES

MARCH 1977

| STATE | Temperature | | | | | | Precipitation | | | | | |
|----------------|------------------------|---------------|------|----------------------------|--------------|------|------------------------|-----------------|------------------------|--------------|--|--|
| | Monthly extremes | | | | | | Monthly extremes | | | | | |
| | Station | Highest
°F | Date | Station | Lowest
°F | Date | Station | Greatest
In. | Station | Least
In. | | |
| Alabama | Martin Dam | 88 | 20 | Valley Head | 13 | 16 | Gorgas | 13.48 | Matheas 1 SSW | 4.15 | | |
| Alaska | Annette WBAP | 60 | 10 | Kobuk | -55 | 5 | Cordova-Klam | 29.35 | 6 Stations | T | | |
| Arizona | 2 Stations | 92 | 25+ | Springerville | -11 | 19 | Crown King | 7.79 | San Simon 9 ESE | .20 | | |
| Arkansas | 5 Stations | 80 | 24 | Gravette | 8 | 13 | Warren | 12.47 | Little Rock Filt Plant | 1.96 | | |
| California | Indio U S Date Garden | 96 | 25 | White Mountain 2 | -8 | 27 | Palomar Mt Observatory | 9.59 | El Centro 2 SSW | .00 | | |
| Colorado | 4 Stations | 75 | 24+ | Taylor Park | -31 | 19 | Wolf Creek Pass 4 W | 10.95 | 2 Stations | .28 | | |
| Connecticut | Hartford WBAP | 59 | 26 | Norfolk 2 SW | 5 | 30 | Groton | 6.46 | Cream Hill | 1.86 | | |
| Delaware | 2 Stations | 72 | 26 | 2 Stations | 17 | 1 | Selbyville | 4.89 | Newark University Farm | 3.20 | | |
| Florida | 6 Stations | 92 | 31+ | Fountain 3 SSE | 25 | 14 | Fort Myers WBAP | 18.58 | Homestead Exp Sta | 1.26 | | |
| Georgia | 3 Stations | 86 | 30+ | Carrollton | 13 | 16 | Preston | 13.43 | Toccoa | 3.59 | | |
| Hawaii | 3 Stations | 87 | 23+ | Mauna Loa Slope Obs | 29 | 25 | Piihonua 89, Hawaii | 14.00 | 16 Stations | .00 | | |
| Idaho | 2 Stations | 72 | 7 | Island Park Dam | -24 | 10 | Fenn Ranger Station | 4.86 | Mackay Ranger Station | .18 | | |
| Illinois | 3 Stations | 72 | 9+ | 2 Stations | 4 | 28 | Brookport Dam 52 | 8.00 | La Salle 1 S | 1.03 | | |
| Indiana | Bedford | 74 | 9 | 2 Stations | 2 | 15 | Newburgh Dam 47 | 6.75 | Franklin 2NNE | 1.05 | | |
| Iowa | 3 Stations | 75 | 9+ | 2 Stations | -3 | 28 | Williamsburg | 4.69 | Blockton 2 S | .83 | | |
| Kansas | Ellsworth | 83 | 8 | Smith Center | -2 | 28 | Pittsburg | 3.25 | Hoyt | .29 | | |
| Kentucky | Barren River Reservoir | 78 | 10 | Dewey Dam | 4 | 16 | Mayfield Radio WNGO | 7.65 | Burdine 2 NE | 1.89 | | |
| Louisiana | 4 Stations | 82 | 31+ | Ashland 2 S | 23 | 14 | Diamond 4 NW | 10.33 | Belah Fire Tower | 3.07 | | |
| Maine | Woodland | 63 | 21 | 2 Stations | -14 | 4+ | Portland WBAP | 4.22 | Middle Dam | 1.33 | | |
| Maryland | Charlotte Hall 2 SE | 76 | 26 | Oakland 1 SE | 1 | 17 | Frostburg | 5.53 | Potomac Filter Plant | 2.43 | | |
| Massachusetts | Haverhill | 61 | 20 | 3 Stations | 1 | 30+ | Provincetown 2 N | 6.97 | West Otis | 2.26 | | |
| Michigan | Stephenson 5 W | 57 | 21 | Herman | -20 | 9 | Niles | 4.61 | Kenton U S Forest | .24 | | |
| Minnesota | 4 Stations | 50 | 22+ | 2 Stations | -24 | 10+ | Springfield 1 NW | 2.77 | Glenwood 2 E | .24 | | |
| Mississippi | Natchez | 83 | 31 | 2 Stations | 21 | 16+ | Wiggins 4 SE | 11.36 | Paulding | 3.13 | | |
| Missouri | St. Joseph 4 ENW | 80 | 8 | Monett | 3 | 13 | Puxico | 7.12 | Concordia | .36 | | |
| Montana | Billings Water Plant | 67 | 7 | Lonesome Lake | -32 | 3 | Many Glacier | 6.78 | 3 Stations | .00 | | |
| Nebraska | Falls City | 77 | 8 | Gordon | -12 | 10 | Fremont | 2.54 | Arnold | .21 | | |
| Nevada | Sunrise Manr Las Vegas | 89 | 24 | Ruth | -4 | 11 | Lake Valley | 2.96 | 3 Stations | .00 | | |
| New Hampshire | Windham | 58 | 20 | First Conn Lake | -15 | 30 | Mount Washington | 13.92 | Walpole 2 | 1.53 | | |
| New Jersey | 2 Stations | 71 | 26 | Burlington | 0 | 30 | Long Branch 2 S | 5.12 | Mahwah | 2.26 | | |
| New Mexico | 3 Stations | 82 | 31+ | Red River | -9 | 28 | Ochoa | 3.55 | Villanueva | .03 | | |
| New York | NY Westerleigh Stat Is | 61 | 26 | Old Forge | -10 | 9 | Bridgehampton | 5.36 | Angelica | .73 | | |
| North Carolina | Whiteville | 82 | 11 | Grandfather Mountain | 4 | 16 | Shallotte 4 WNW | 9.11 | Canton 1 SW | 1.44 | | |
| North Dakota | Marlath | 55 | 7 | Hannah 2 N | -24 | 9 | Dayton 2 N | 2.00 | Watoga 5 Dak N N | T | | |
| Ohio | McConnelville Lock 7 | 71 | 4 | Canfield 1 S | -2 | 16 | Cheviot | 5.35 | Mansfield WBAP | 1.27 | | |
| Oklahoma | Healdton 2 S | 83 | 24 | Grove 1 E | 10 | 13 | Signal Mountain Tower | 7.82 | Boise City 2 E | .48 | | |
| Oregon | Brookings | 78 | 23 | Fremont | -1 | 5 | Tillamook 13 ENE | 8.92 | Buena Vista Station | .32 | | |
| Pennsylvania | 3 Stations | 70 | 26 | 2 Stations | -7 | 16+ | New Stanton | 5.92 | Lawrenceville | .88 | | |
| Puerto Rico | Dos Bocas, P. R. | 95 | 30+ | Adjuntas Substation, P. R. | 47 | 6 | Pico Del Este, P. R. | 4.97 | 4 Stations, P. R. | .00 | | |
| Rhode Island | Greenville | 58 | 20 | North Scituate 4 W | 12 | 9 | Kierstead | 5.97 | Greenville | 4.27 | | |
| South Carolina | Sumter | 88 | 11 | 2 Stations | 14 | 16+ | Batesburg | 9.97 | Rainbow Lake | 2.96 | | |
| South Dakota | Winnier | 72 | 7 | Kyle | -26 | 10 | Salem | 5.91 | Big Bend Dam | .02 | | |
| Tennessee | Lynnville 4 SSW | 78 | 25 | Lynnville 4 SSW | 9 | 16 | Selmer | 6.48 | Sevierville 1 SE | 1.44 | | |
| Texas | Zapata | 98 | 25 | Lipscomb | 11 | 29 | Angleton 2 W | 7.52 | 3 Stations | .00 | | |
| Utah | Saint George | 80 | 24 | Soldier Creek | -17 | 20 | Alta | 7.02 | Midlake | .01 | | |
| Vermont | Bellows Falls | 55 | 23 | West Burke | -9 | 10+ | Mount Mansfield | 6.24 | Montpelier FAA AP | 1.28 | | |
| Virginia | Chase City | 83 | 27 | Partlow 3 WNW | 6 | 17 | Stony Creek 4 SW | 5.73 | Copper Hill 1 NNE | .80 | | |
| Washington | Sunnyside | 71 | 28 | Chesaw 4 NNW | -2 | 3 | Aberdeen 20 NNE | 10.98 | Sunnyside | .11 | | |
| West Virginia | Williamson | 74 | 26+ | Canaan Valley | -3 | 17 | Rowlesburg 1 | 7.34 | Matoaka | 1.24 | | |
| Wisconsin | 2 Stations | 56 | 21 | Prentice 1 N | -17 | 9 | Blue Mounds 5 S | 2.87 | Madeline Island | .15 | | |
| Wyoming | 2 Stations | 70 | 7 | Lake Yellowstone | -22 | 11 | Centennial | 4.09 | Clark 7 NE | .06 | | |

+ And also on an earlier date or dates.

NOTE: Dates in the above table apply to the period 24 hours prior to time of observation. In some cases the actual occurrence is on the calendar date preceding that shown. (See individual Climatological Data for times of observations).

D Water equivalent of snowfall wholly or partly estimated, using a ratio of 1 inch water equivalent to every 10 inches of snowfall.

CLIMATOLOGICAL DATA

ENGLISH UNITS

MARCH 1970

| State and Station | Pressure | | Temperature | | | | | Precipitation | | | | | Wind | | | | No. of days (sunrise to sunset) | | Possible sunshine (sunrise to sunset) | | | | | | | | | | | | | |
|-------------------|--------------------|-----------|-------------|---------|---------|-----------------------|---------|---------------|--------|------|---------------------|---------------------|---------------------------|-------|-----|----------------------|---------------------------------|------------------|---------------------------------------|-------------|-------|-----------------|---------------------|-------|-----------|------|------------|--------------------|--------------|---------------------------------------|-------------------------|--|
| | Elevation (ground) | Station Q | Sea level | Average | | Departure from normal | Highest | Date | Lowest | Date | No. of days | | Average relative humidity | Total | In. | Greatest in 24 hours | No. of days | | | Snow, Sleet | Total | Resultant speed | Resultant direction | Speed | Direction | Date | Clear, 0-3 | Partly cloudy, 4-7 | Cloudy, 8-10 | Sky cover, tenths (sunrise to sunset) | | |
| | | | | Maximum | Minimum | | | | | | Max. 90 F. or above | Min. 32 F. or below | | | | | With thunderstorms | 0.1 inch or more | | | | | | | | | | | | | Maximum depth on ground | |
| ALABAMA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BIRMINGHAM | 620 | 992.6 | 1015.3 | 64 | 41 | 52.6 | -1.9 | 76 | 25+ | 25 | 16 | 0 | 4 | 40 | 64 | 11.36 | 5.36 | 7.05 | 9 | 3 | T | 1.6 | 28 | 34 | SE | 17 | 5 | 11 | 15 | 6.9 | 50 | |
| HUNTSVILLE | 624 | 992.2 | 1015.6 | 31 | 39 | 49.7 | -2.1 | 74 | 25 | 22 | 16 | 0 | 5 | 40 | 73 | 8.40 | 1.83 | 2.34 | 13 | 3 | 0 | 2.0 | 31 | 26 | 30 | 23+ | 6 | 6 | 19 | 7.2 | | |
| MOBILE | 211 | 1007.5 | 1015.5 | 68 | 51 | 59.2 | -1.1 | 77 | 29+ | 32 | 14 | 0 | 1 | 49 | 74 | 8.60 | 1.37 | 2.63 | 13 | 5 | 0 | 1.3 | 6 | 29 | 32 | 3 | 7 | 6 | 18 | 6.8 | | |
| MONTGOMERY | 183 | 1008.1 | 1015.6 | 67 | 44 | 55.3 | -0.7 | 78 | 25 | 30 | 14 | 0 | 3 | 44 | 68 | 6.20 | 0.64 | 2.47 | 12 | 3 | 0 | 2.4 | 25 | 32 | SE | 17 | 5 | 10 | 16 | 6.8 | 54 | |
| ALASKA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ANCHORAGE | 114 | 1000.0 | 1005.1 | 41 | 30 | 35.4 | 10.8 | 49 | 28+ | 17 | 9 | 8 | 18 | 25 | 68 | 0.29 | -0.22 | 0.11 | 7 | 0 | 1.4 | 1.9 | 15 | 26 | 16 | 30 | 5 | 6 | 20 | 7.4 | 43 | |
| ANNETTE | 110 | 1011.6 | 1016.1 | 50 | 39 | 44.3 | 6.5 | 60 | 10 | 32 | 3+ | 0 | 2 | 33 | 69 | 7.83 | -1.72 | 2.29 | 23 | 0 | 1.8 | 5.1 | 13 | 31 | 13 | 5 | 4 | 4 | 23 | 8.2 | | |
| BARROW | 31 | 1024.0 | 1024.7 | -13 | -24 | -18.4 | -3.8 | 7 | 31 | -45 | 5 | 0 | 31 | -25 | 70 | 0.06 | -0.05 | 0.03 | 4 | 0 | 1.0 | 6.3 | 4 | 29 | 8 | 29 | 17 | 6 | 8 | 3.8 | | |
| BARTHELEMY ISLAND | 39 | 1020.7 | 1022.6 | -12 | -27 | -19.3 | -4.4 | 15 | 30 | -43 | 5 | 0 | 31 | -28 | 61 | 0.49 | 0.29 | 0.15 | 7 | 0 | 5.4 | 4.1 | 27 | 37 | 27 | 8 | 19 | 11 | 11 | 5.6 | | |
| BETHEL | 125 | 997.6 | 1003.4 | 27 | 11 | 18.7 | 7.1 | 42 | 14+ | -30 | 4 | 0 | 31 | 15 | 84 | 0.47 | -0.56 | 0.13 | 9 | 0 | 12.9 | 7.0 | 3 | 5+ | 5 | 5 | 5 | 21 | 7.5 | | | |
| BETHEL | 644 | 986.5 | 1012.9 | 19 | -2 | 8.8 | | 40 | 26 | -31 | 5 | 0 | 31 | -3 | 60 | 0.77 | | 0.19 | 10 | 0 | 14.5 | 5.4 | 36 | 24 | 2 | 8 | 3 | 20 | 6.7 | | | |
| BIG DELTA | 168 | 994.6 | 998.3 | 36 | 16 | 25.8 | | 53 | 30 | -19 | 4 | 0 | 28 | 27 | 81 | 0.25 | | 0.21 | 13 | 0 | 10.6 | 3.9 | 13 | 45 | 12 | 3 | 1 | 4 | 19 | 7.8 | | |
| COLD BAY | 96 | 999.5 | 998.3 | 32 | 27 | 31.8 | 3.0 | 47 | 20 | -10 | 7 | 0 | 24 | 27 | 81 | 0.32 | 1.57 | 1.00 | 21 | 0 | 10.6 | 3.9 | 13 | 45 | 12 | 3 | 1 | 4 | 19 | 7.8 | | |
| FAIRBANKS | 436 | 990.5 | 1008.0 | 32 | 9 | 20.9 | 12.0 | 51 | 29 | -17 | 4 | 0 | 29 | 5 | 51 | 0.25 | -0.15 | 0.10 | 8 | 0 | 4.2 | 1.9 | 35 | 40 | 22 | 31 | 4 | 8 | 13 | 7.1 | | |
| FAIRBANKS | 1572 | 949.5 | 1008.7 | 26 | 14 | 25.0 | | 47 | 30 | -19 | 4 | 0 | 30 | 16 | 67 | 0.13 | | 0.09 | 4 | 0 | 2.9 | 5.5 | 18 | 35 | 14 | 17 | 6 | 6 | 19 | 6.8 | | |
| HOMER | 41 | 30 | 35.3 | 41 | 30 | 35.3 | | 48 | 29 | 10 | 9 | 0 | 19 | 30 | 87 | 2.66 | 1.28 | 1.20 | 14 | 0 | 5.0 | 6.2 | 12 | 44 | 13 | 15 | 2 | 3 | 26 | 9.0 | | |
| ILIAMNA | 186 | | | 38 | 24 | 31.0 | | 47 | 26 | -11 | 8 | 0 | 26 | 32 | 84 | 2.08 | | 0.59 | 14 | 0 | 21.6 | 8.3 | 12 | 38 | 12 | 18 | 3 | 3 | 25 | 8.3 | 24 | |
| ILIAMNA | 12 | 1012.9 | 1013.8 | 42 | 31 | 36.5 | 6.1 | 48 | 25 | -20 | 1 | 0 | 14 | 22 | 69 | 0.81 | | 0.83 | 13 | 0 | 1.4 | 2.6 | 8 | 31 | 14 | 28+ | 5 | 4 | 28 | 9.3 | | |
| KATIAH | 49 | 998.6 | 1000.5 | 37 | 24 | 30.5 | 11.0 | 50 | 28 | -9 | 8 | 0 | 26 | 32 | 84 | 1.81 | | 0.83 | 13 | 0 | 0.4 | 3.1 | 24 | 28+ | 5 | 4 | 28 | 5 | 4 | 28 | 9.3 | |
| KOTZEBE | 10 | 1011.2 | 1011.7 | 13 | -1 | 6.5 | 5.6 | 33 | 29 | -34 | 8+ | 0 | 31 | -2 | 68 | 0.22 | -0.06 | 0.10 | 6 | 0 | 4.3 | 7.2 | 4 | 50 | 10 | 29 | 10 | 4 | 17 | 6.5 | | |
| MC GRATH | 344 | 992.2 | 1006.4 | 26 | 6 | 15.8 | 7.5 | 42 | 26 | -26 | 4 | 0 | 30 | 5 | 62 | 1.93 | | 0.54 | 14 | 0 | 4.1 | 1.6 | 23 | 24 | 31+ | 5 | 14 | 8 | 9 | 4.4 | 88 | |
| MC GRATH | 13 | 1007.5 | 1008.1 | 20 | 4 | 11.8 | 3.9 | 38 | 11 | -37 | 8 | 0 | 31 | 3 | 64 | 0.60 | -0.60 | 0.07 | 9 | 0 | 4.4 | 7.2 | 3 | 23 | 24 | 31+ | 5 | 14 | 8 | 9 | 4.4 | |
| NOME | 22 | 995.3 | 1000.1 | 30 | 21 | 25.3 | 1.1 | 38 | 26 | -30 | 7 | 0 | 31 | 22 | 87 | 1.24 | | 0.29 | 20 | 0 | 1.0 | 3.1 | 47 | 7 | 9+ | 2 | 9 | 13 | 5 | 3 | 6.5 | |
| ST. PAUL ISLAND | 122 | 994.6 | 998.3 | 34 | 28 | 30.7 | -1.7 | 38 | 24 | 12 | 21 | 0 | 0 | 37 | 87 | 1.24 | | 0.29 | 20 | 0 | 1.0 | 3.1 | 47 | 7 | 9+ | 2 | 9 | 13 | 5 | 3 | 6.5 | |
| SHENAI | 2401 | 994.6 | 998.3 | 34 | 28 | 30.7 | -1.7 | 38 | 24 | 12 | 21 | 0 | 0 | 37 | 87 | 1.24 | | 0.29 | 20 | 0 | 1.0 | 3.1 | 47 | 7 | 9+ | 2 | 9 | 13 | 5 | 3 | 6.5 | |
| SUMMIT | 2401 | 994.6 | 998.3 | 34 | 28 | 30.7 | -1.7 | 38 | 24 | 12 | 21 | 0 | 0 | 37 | 87 | 1.24 | | 0.29 | 20 | 0 | 1.0 | 3.1 | 47 | 7 | 9+ | 2 | 9 | 13 | 5 | 3 | 6.5 | |
| TALKEETNA | 345 | 992.6 | 1006.6 | 20 | 40 | 23.2 | 11.1 | 42 | 29 | -11 | 4 | 0 | 37 | 7 | 71 | 1.48 | 0.04 | 0.49 | 9 | 0 | 6.7 | 10.3 | 7 | 40 | 9 | 10 | 8 | 3 | 20 | 6.7 | | |
| UNALASKA | 15 | 1006.1 | 1006.6 | 22 | 9 | 15.8 | | 42 | 29 | -39 | 8 | 0 | 31 | 5 | 63 | 0.81 | | 0.49 | 9 | 0 | 6.7 | 10.3 | 7 | 40 | 9 | 10 | 8 | 3 | 20 | 6.7 | | |
| UNALASKA | 28 | 1009.5 | 1010.6 | 41 | 29 | 34.6 | 3.2 | 50 | 10 | 20 | 3 | 0 | 25 | 30 | 86 | 17.19 | 8.50 | 2.95 | 24 | 0 | 31.8 | 6.2 | 12 | 44 | 13 | 15 | 2 | 3 | 26 | 9.0 | | |
| ARIZONA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FLAGSTAFF | 7006 | 782.9 | 1013.2 | 46 | 22 | 33.7 | -1.9 | 64 | 24 | 12 | 28 | 0 | 31 | 15 | 50 | 6.75 | 5.30 | 2.96 | 9 | 0 | 67.3 | 2.2 | 24 | 29 | 22 | 17 | 13 | 7 | 11 | 4.8 | | |
| PHOENIX | 1117 | 973.2 | 1012.4 | 73 | 46 | 59.5 | 0.5 | 84 | 25+ | 38 | 21+ | 0 | 0 | 34 | 45 | 2.26 | 1.60 | 0.97 | 5 | 1 | 0.0 | 1.5 | 19 | 38 | 5 | 14 | 9 | 8 | 4 | 4.5 | 83 | |
| TUCSON | 2584 | 923.8 | 1012.1 | 69 | 43 | 55.9 | -2.1 | 79 | 26+ | 36 | 19+ | 0 | 0 | 27 | 40 | 1.13 | 0.60 | 0.55 | 6 | 0 | T | 3.7 | 24 | 36 | W | 5 | 14 | 8 | 9 | 4.4 | | |
| WINSLOW | 4895 | 848.0 | 1013.6 | 57 | 27 | 42.1 | -3.5 | 74 | 24 | 15 | 19 | 0 | 24 | 20 | 49 | 0.70 | 0.31 | 0.47 | 6 | 0 | 5.5 | 4.5 | 27 | 37 | 31 | 27 | 13 | 6 | 12 | 5.1 | | |
| YUMA | 194 | 1005.8 | 1013.0 | 76 | 49 | 62.4 | -0.6 | 89 | 24 | 41 | 21 | 0 | 0 | 35 | 41 | 0.82 | 0.58 | 0.61 | 3 | 2 | 0.0 | 3.1 | 30 | 34 | N | 27 | 18 | 7 | 6 | 3.7 | 90 | |
| ARKANSAS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FORT SMITH | 447 | 998.6 | 1015.5 | 58 | 38 | 47.8 | -3.3 | 79 | 24 | 25 | 14 | 0 | 7 | 36 | 67 | 3.22 | -0.25 | 0.96 | 12 | 4 | 0.2 | 2.0 | 5 | 25 | NW | 26+ | 6 | 4 | 21 | 7.7 | 42 | |
| LITTLE ROCK | 257 | 1006.1 | 1015.8 | 57 | 39 | 48.2 | -3.6 | 78 | 24 | 27 | 14 | 0 | 5 | 39 | 74 | 4.87 | 0.06 | 2.20 | 13 | 3 | T | 1.9 | 1 | 36 | NW | 25+ | 5 | 7 | 19 | 7.5 | 39 | |
| CALIFORNIA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BAKERSFIELD | 475 | 999.0 | 1016.6 | 71 | 47 | 58.8 | -0.7 | 83 | 25 | 35 | 19 | 0 | 0 | 40 | 54 | 0.48 | -0.58 | 0.37 | 4 | 0 | 0.0 | 2.1 | 36 | 23 | 30 | 10+ | 15 | 10 | 6 | 3.9 | | |
| BISHOP | 4108 | 872.7 | | 64 | 30 | 46.9 | 1.9 | 78 | 24 | 15 | 19 | 0 | 24 | 34 | 59 | 0.05 | -0.50 | 0.04 | 2 | 0 | 0.1 | T | 1 | 28 | 7 | 17 | 13 | 6 | 12 | 5.3 | | |
| BLUE CANYON | 5280 | | | 48 | 33 | 40.9 | 1.4 | 66 | 24 | 22 | 2 | 0 | 15 | 19 | 49 | 4.82 | -3.63 | 2.33 | 9 | 0 | 34.9 | 19 | 38 | 7 | 17 | 13 | 6 | 12 | 5.3 | | | |
| EUREKA | 43 | | | 56 | 44 | 49.9 | 1.2 | 65 | 13+ | 38 | 31+ | 0 | 0 | 42 | 68 | 2.70 | -2.55 | 0.89 | 11 | 0 | 0.0 | 0.0 | 0 | 28 | 7 | 17 | 13 | 6 | 12 | 5.3 | 77 | |
| FRESNO | 328 | 1004.7 | 1016.6 | 69 | 42 | 55.3 | 0.3 | 80 | 25+ | 35 | 20+ | 0 | 0 | 42 | 68 | 1.65 | -0.31 | 1.05 | 3 | 0 | 0.0 | 2.2 | 33 | 26 | 33 | 26 | 17 | 5 | 9 | 4.1 | 89 | |

CLIMATOLOGICAL DATA

ENGLISH UNITS

MARCH 1970

| State and Station | Pressure | | Temperature | | | | | Precipitation | | | | | Wind | | | | No. of days (sunrise to sunset) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------|--------------------|---------|-------------|-----------------|-----------------|---------|-----------------------|---------------|----|--------|----|------|------|-------------|----|----------------------|---------------------------------|-------|-----|--------|-----------------|---------------------|--------------|----|------------|--------------------|--------------|---------------------------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| | Elevation (ground) | Station | Sea level | Average maximum | Average minimum | Average | Departure from normal | Highest | | Lowest | | Date | | No. of days | | Greatest in 24 hours | Departure from normal | Total | In. | M.p.h. | Resultant speed | Resultant direction | Fastest mile | | Clear, 0.3 | Partly cloudy, 4-7 | Cloudy, 8-10 | Sky cover, tenths (sunrise to sunset) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | F. | F. | F. | F. | F. | F. | F. | F. | | | | | | | | F. | F. | | | | | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. |

See footnotes at end of table

CLIMATOLOGICAL DATA

ENGLISH UNITS

MARCH 1970

| State and Station | Elevation (ground) | Pressure | | | Temperature | | | | | | Precipitation | | | | Wind | | | | No. of days
(sunrise to
sunset) | Sky cover, tenths
(sunrise to sunset) | | | | | | | | | | | |
|-------------------|--------------------|--------------|-----------|----|--------------------|--------------------|---------------|-----------------------|---------|------|---------------|------|----------------|---------------------|---------------------|---------------------------|-------|-----|---------------------------------------|--|-----------------------|----------------------|----------------|-------------|----------------------------|-----------------|---------------------|-------|-----------|------|--------------|
| | | Station
Q | Sea level | F. | Average
maximum | Average
minimum | Average
F. | Departure from normal | Highest | Date | Lowest | Date | No. of
days | Max. 90 F. or above | Min. 32 F. or below | Average relative humidity | Total | In. | | | Departure from normal | Greatest in 24 hours | No. of
days | Snow, Sleet | Maximum depth
on ground | Resultant speed | Resultant direction | Speed | Direction | Date | Fastest mile |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|--|--|--|--|---|--|--|---|--|--|--|----------------------------|---------------------------|--|--|--|--|--------------------------|---|--------------------------------------|----------------------------|----------------------------|----------------------------|---------------------|---------------------|-----------|--------------|-------------------|-------------------|--------------------|--------------------|--------------------|------------|
| ILLINOIS
PEORIA
ROCKFORD
SPRINGFIELD | 652
724
588 | 992.9
989.5
993.9 | 1017.4
1017.2
1016.6 | 43
42
46 | 27
25
30 | 35.3
33.1
37.9 | - 2.3
- 0.9
- 2.3 | 60
52
67 | 3
21
8 | 14
16
16 | 16
28
16 | 0
23
0 | 27
22
29 | 69
67
74 | Average relative humidity | In. | 1.60
1.89
1.99 | - 1.25
- 0.57
- 0.89 | 0.59
1.05
0.76 | 12
8
13 | 2
0
2 | 8.3
6.4
4.3 | 3
2
2 | Maximum depth
on ground | Resultant speed | Resultant direction | Speed | Direction | Date | Fastest mile | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Possible sunshine | Cloudy, 8-10 | Partly cloudy, 4-7 | Clear, 0-3 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| INDIANA
EVANSVILLE
FORT WAYNE
INDIANAPOLIS
SOUTH BEND | 381
791
792
773 | 1001.7
986.1
986.1
987.8 | 1016.1
1016.9
1015.9
1016.7 | 49
42
47
40 | 34
27
30
25 | 41.6
34.1
38.1
32.3 | - 3.7
- 2.2
- 0.8
- 2.6 | 66
53
58
52 | 3
21
4 | 14
15
16 | 0
24
0 | 23
28
25 | 78
69
78 | Average relative humidity | In. | 6.30
2.21
2.51
2.81 | 1.99
- 0.57
- 0.90
- 0.70 | 1.69
0.73
0.62
1.64 | 13
17
13
16 | 5
1
2
1 | 15.2
5.2
5.6
16.7 | 6
3
2
7 | Maximum depth
on ground | Resultant speed | Resultant direction | Speed | Direction | Date | Fastest mile | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Possible sunshine | Cloudy, 8-10 | Partly cloudy, 4-7 | Clear, 0-3 | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| IOWA
BURLINGTON
DES MOINES
DUBUQUE
SIOUX CITY
WATERLOO | 692
938
1056
1035
868 | 982.7
977.7
977.7
985.8 | 1018.7
1018.4
1019.0
1018.6 | 44
41
39
38 | 25
22
22
20 | 34.5
31.4
30.3
29.1 | - 2.8
- 0.9
- 0.5
- 2.8 | 65
61
53
58 | 3
3
7 | 13
13
11 | 28
28
30
28 | 0
28
0
31 | 25
22
24
19 | 67
68
80
69 | Average relative humidity | In. | 1.91
3.28
2.55
1.84
2.48 | - 0.80
1.19
- 0.21
- 1.84
0.43 | 0.62
2.07
1.73
0.73
1.09 | 12
10
7
10
9 | 1
2
3
6
2 | 3.1
9.8
3.5
15.9
8.4 | 1
5
6
4 | Maximum depth
on ground | Resultant speed | Resultant direction | Speed | Direction | Date | Fastest mile | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Possible sunshine | Cloudy, 8-10 | Partly cloudy, 4-7 | Clear, 0-3 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| KANSAS
CONCORDIA
DODGE CITY
GOODLAND
TOPEKA
WICHITA | 1470
2582
3654
877
1321 | 962.8
923.5
885.9
984.8
967.5 | 1017.1
1016.0
1015.4
1017.3
1016.4 | 48
47
45
51
49 | 25
26
22
28
30 | 36.5
36.5
33.4
39.5
39.7 | - 3.3
- 5.3
- 3.2
- 2.2
- 4.8 | 75
76
71
78
74 | 2
8
7 | 3
14
8 | 28
28
28
13
13 | 0
25
0
23
0 | 26
26
27
21
28 | 71
73
67
84
66 | Average relative humidity | In. | 1.13
2.62
2.91
1.03
2.70 | - 0.36
1.46
- 0.15
- 0.58
1.06 | 0.39
1.49
0.25
0.63
0.95 | 12
9
0
5
2 | 1
24
11
4
16 | 6.6
13
11.5
4.9
14 | 2
13
6
1
14 | Maximum depth
on ground | Resultant speed | Resultant direction | Speed | Direction | Date | Fastest mile | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Possible sunshine | Cloudy, 8-10 | Partly cloudy, 4-7 | Clear, 0-3 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| KENTUCKY
LEXINGTON
LOUISVILLE | 869
966
477 | 983.7
980.0
998.0 | 1016.1
1016.1
1015.8 | 47
31
51 | 32
40
34 | 39.0
40.5
42.3 | - 1.6
- 2.7
- 1.0 | 63
67
65 | 3
3
3 | 12
16
17 | 16
16
16 | 0
19
0 | 29
31
33 | 69
71
73 | Average relative humidity | In. | 4.71
4.72
4.52 | - 0.92
- 0.92
- 0.07 | 1.04
1.75
1.22 | 16
18
18 | 1
2 | 12.0
16.2
10.7 | 4
6 | Maximum depth
on ground | Resultant speed | Resultant direction | Speed | Direction | Date | Fastest mile | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Possible sunshine | Cloudy, 8-10 | Partly cloudy, 4-7 | Clear, 0-3 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LOUISIANA
ALEXANDRIA
BATON ROUGE
LAKE CHARLES
NEW ORLEANS
SHREVEPORT | 92
62
9
4
254 | 1011.2
1015.6
1012.5
1014.8
1015.2
1005.4 | 66
69
67
69
52
63 | 43
47
47
47
52
44 | 54.4
59.1
56.9
60.1
60.1
53.8 | - 4.0
- 1.6
- 4.2
- 1.3
- 2.8 | 80
80
77
79
78 | 31
33
2
34
24 | 27
34
14
14
14 | 14
14
14
14
14 | 0
0
0
0
1 | 43
49
51
51
69 | 69 | Average relative humidity | In. | 3.39
7.02
5.25
7.22
4.50 | - 1.58
3.69
2.11
1.60
1.98
1.93 | 0.80
3.69
1.60
2.96
1.88
1.93 | 11
13
11
11
11
11 | 3
0
7
4
3 | 0.0
0.0
0.0
0.0
0.0 | 0
0
8
8
11
11 | 0
0
0
0
0 | Maximum depth
on ground | Resultant speed | Resultant direction | Speed | Direction | Date | Fastest mile | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Possible sunshine | Cloudy, 8-10 | Partly cloudy, 4-7 | Clear, 0-3 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MAINE
CARIBOU
PORTLAND | 624
43 | 980.8
1010.8 | 1013.2
1013.2 | 35
40 | 16
25 | 25.3
32.4 | 2.5
1.0 | 52
49 | 19
20 | 3
4 | 2
4 | 0
26 | 31
22 | 66 | Average relative humidity | In. | 2.25
4.22 | - 0.13
- 0.12 | 0.75
1.17 | 11
12 | 0 | 19.8
20.7 | 8
8 | Maximum depth
on ground | Resultant speed | Resultant direction | Speed | Direction | Date | Fastest mile | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Possible sunshine | Cloudy, 8-10 | Partly cloudy, 4-7 | Clear, 0-3 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MARYLAND
BALTIMORE | 148 | 1011.2 | 1016.9 | 49 | 32 | 40.4 | - 2.7 | 73 | 26 | 20 | 1 | 0 | 14 | 26 | 60 | Average relative humidity | In. | 3.07 | - 0.75 | 0.56 | 10 | 1 | 1.9 | 7 | Maximum depth
on ground | Resultant speed | Resultant direction | Speed | Direction | Date | Fastest mile | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Possible sunshine | Cloudy, 8-10 | Partly cloudy, 4-7 | Clear, 0-3 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MASSACHUSETTS
BLUE HILL OBS R
BOSTON
WORCESTER | 629
15
986 | 1013.2
976.6 | 1014.0
1014.5 | 41
44
38 | 26
31
23 | 33.4
37.4
30.4 | - 1.4
- 0.3
- 2.4 | 57
57
53 | 20
26
20 | 13
19
9 | 9
9
9 | 0
17
0 | 25
18 | 63
64 | Average relative humidity | In. | 5.07
4.32
3.51 | 0.53
0.10
- 0.60 | 0.94
0.79
1.06 | 13
13
15 | 0 | 20.8
18.2
19.9 | 7
10 | Maximum depth
on ground | Resultant speed | Resultant direction | Speed | Direction | Date | Fastest mile | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Possible sunshine | Cloudy, 8-10 | Partly cloudy, 4-7 | Clear, 0-3 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MICHIGAN
ALPENA
DETROIT
DETROIT METRO
FLINT
GRAND RAPIDS
HOUGHTON LAKE
LANSING
MARQUETTE U
MUSKEGON
SAULT STE MARIE | 689
619
633
771
784
1149
861
677
625
721 | 991.2
991.5
987.5
987.1
973.9
984.1
993.6 | 1017.3
1016.4
1016.3
1017.0
1017.6
1016.9
1017.4 | 35
39
41
38
37
34
38
32
37 | 14
25
26
23
20
12
20
18
21 | 24.3
31.9
32.9
30.1
28.8
22.9
29.1
25.1
28.6 | - 1.4
- 2.9
- 1.5
- 2.6
- 3.9
- 3.6
- 3.3
- 1.6
- 4.3 | 49
50
56
51
54
48
52
52
52 | 21
21
12
19
21
21
19
22
22 | - 8
12
8
12
6
8
6
8
8 | 29
25
26
29
29
29
29
29
29 | 0
25
0
26
20
70
68
68 | 70
65
65
68
70
73
71 | Average relative humidity | In. | 2.03
2.15
2.62
2.30
2.43
1.86
2.20
1.17
1.58 | 0.01
- 0.27
- 0.21
0.16
0.15
0.17
- 0.20
- 0.74
- 0.23 | 0.89
1.10
1.04
0.62
1.08
0.58
0.77
0.53
0.76 | 11
12
0
14
2
13
13
14
10 | 0 | 20.0
5.9
6.7
12.5
19.3
24.5
13.3
21.1
9.9 | 10
2
2
12
15
22
22 | Maximum depth
on ground | Resultant speed | Resultant direction | Speed | Direction | Date | Fastest mile | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Possible sunshine | Cloudy, 8-10 | Partly cloudy, 4-7 | Clear, 0-3 | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

CLIMATOLOGICAL DATA

ENGLISH UNITS

MARCH 1970

| State and Station | Pressure | | Temperature | | | | | Precipitation | | | | | Wind | | | | No. of days (sunrise to sunset) | | | | | | | | | | | | | | | | | | | | | |
|-------------------|--------------------|---------|-------------|-----------------|-----------------|---------|-----------------------|---------------|------|--------|------|---------------------|---------------------|----------------------|--------------------|-------------|---------------------------------|---------------------|-------|-----------|------|------------|--------------------|--------------|---------------------------------------|-------------------|---------------------------|-------|-----------------------|-------------|-------------------------|-----|----|-----|------|------|-----|------|
| | Elevation (ground) | Station | Sea level | Average maximum | Average minimum | Average | Departure from normal | Highest | Date | Lowest | Date | No. of days | | Greatest in 24 hours | With thunderstorms | Snow, Sheet | Resultant speed | Resultant direction | Speed | Direction | Date | Clear, 0-3 | Partly cloudy, 4-7 | Cloudy, 8-10 | Sky cover, tenths (sunrise to sunset) | | | | | | | | | | | | | |
| | | | | | | | | | | | | Max. 90 F. or above | Min. 32 F. or below | | | | | | | | | | | | | Average dew point | Average relative humidity | Total | Departure from normal | No. of days | Maximum depth on ground | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | In. | F. | In. | Mph. | Mph. | In. | Mph. |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MINNESOTA | 1428 | 965.8 | 1019.4 | 32 | 10 | 21.1 | -0.2 | 47 | 20 | -7 | 11 | 0 | 31 | 10 | 63 | 1.15 | -0.47 | 0.61 | 9 | 0 | 9.9 | 20 | 3.9 | 31 | 40 | E | 2 | 11 | 7 | 13 | 5.3 | 69 | | | | | | |
| | 1179 | 974.6 | 1019.7 | 30 | 5 | 17.5 | -1.9 | 45 | 18 | -16 | 7 | 0 | 31 | 9 | 67 | 1.01 | 0.08 | 0.86 | 7 | 0 | 4.8 | 19 | 3.7 | 31 | 24 | NW | 2 | 13 | 8 | 10 | 5.0 | 64 | | | | | | |
| | 834 | 988.2 | 1019.7 | 34 | 18 | 26.0 | -1.4 | 44 | 25 | 4 | 25 | 0 | 31 | 15 | 64 | 2.05 | 1.23 | 1.23 | 7 | 1 | 8.6 | 19 | 2.8 | 34 | 25 | NW | 27+ | 11 | 7 | 13 | 5.3 | 64 | | | | | | |
| | 1297 | 969.2 | 1018.7 | 34 | 18 | 26.3 | -1.6 | 44 | 25 | 8 | 28 | 0 | 31 | 18 | 71 | 1.57 | -0.07 | 0.78 | 7 | 0 | 8.4 | 16 | 3.6 | 34 | 26 | 29 | 27+ | 9 | 10 | 12 | 5.9 | | | | | | | |
| | 1034 | 980.7 | 1020.2 | 32 | 11 | 21.6 | -4.0 | 45 | 25 | -1 | 9 | 0 | 31 | 0 | 65 | 1.05 | -0.23 | 0.54 | 8 | 0 | 6.1 | 9 | | | | | | 13 | 6 | 12 | 5.3 | | | | | | | |
| MISSISSIPPI | 310 | 1003.7 | 1015.5 | 66 | 42 | 54.0 | -2.5 | 80 | 31 | 25 | 14 | 0 | 4 | 46 | 77 | 5.40 | -0.34 | 1.98 | 10 | 5 | T | 0 | 0.3 | 30 | 36 | NW | 3 | 6 | 8 | 17 | 7.0 | 51 | | | | | | |
| | 290 | 1005.4 | 1015.5 | 66 | 42 | 54.1 | -2.4 | 80 | 25 | 27 | 14 | 0 | 3 | 43 | 72 | 4.72 | -1.60 | 1.61 | 9 | 3 | 0.0 | 0 | 1.3 | 28 | 22 | 20 | 25+ | 9 | 5 | 20 | 7.2 | | | | | | | |
| MISSOURI | 887 | 983.7 | 1016.8 | 48 | 31 | 39.2 | -2.7 | 77 | 8 | 19 | 15 | 0 | 23 | 30 | 74 | 1.01 | -1.64 | 0.28 | 11 | 2 | 4.9 | 2 | 2.6 | 3 | 28 | NW | 22 | 3 | 6 | 22 | 8.0 | 43 | | | | | | |
| | 742 | 989.5 | 1017.0 | 51 | 33 | 42.0 | -1.3 | 77 | 8 | 20 | 14 | 0 | 14 | 28 | 62 | 1.02 | -1.47 | 0.63 | 7 | 1 | 1.0 | 1 | 3.7 | 3 | 29 | NE | 9 | 7 | 4 | 17 | 7.6 | 49 | | | | | | |
| | 531 | 995.9 | 1016.7 | 53 | 31 | 41.8 | -1.6 | 80 | 8 | 19 | 15 | 0 | 19 | 25 | 59 | 3.17 | -0.51 | 0.55 | 13 | 4 | 5.0 | 4 | 3.7 | 36 | 23 | 29 | 3 | 7 | 17 | 5.8 | 39 | | | | | | | |
| | 1268 | 965.9 | 1016.3 | 48 | 30 | 38.7 | -2.9 | 70 | 3 | 12 | 13 | 0 | 22 | 30 | 75 | 3.79 | 0.95 | 1.41 | 14 | 7 | 23.9 | 17 | 1.1 | 8 | 25 | N | 12 | 3 | 4 | 24 | 8.2 | 38 | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MONTANA | 3567 | 890.3 | 1017.8 | 39 | 20 | 29.5 | -4.2 | 61 | 7 | -1 | 4 | 0 | 28 | 21 | 75 | 0.95 | -0.10 | 0.41 | 9 | 0 | 7.2 | 7 | 3.7 | 29 | 41 | NE | 26 | 4 | 6 | 21 | 7.6 | 64 | | | | | | |
| | 2284 | 935.6 | 1019.4 | 34 | 15 | 28.4 | -2.3 | 50 | 20 | -11 | 4 | 0 | 29 | 16 | 72 | 1.27 | -0.29 | 0.10 | 9 | 0 | 2.6 | 2 | 2.3 | 5 | 35 | 11 | 1 | 6 | 6 | 19 | 7.1 | 70 | | | | | | |
| | 3662 | 881.7 | 1019.3 | 36 | 20 | 28.0 | -1.7 | 57 | 20 | -12 | 4 | 0 | 28 | 16 | 60 | 1.14 | -0.22 | 0.40 | 13 | 0 | 10.9 | 11 | 5.7 | 25 | 38 | SW | 23 | 3 | 9 | 19 | 7.7 | 39 | | | | | | |
| | 2584 | 925.8 | 1019.0 | 38 | 15 | 25.5 | -1.4 | 57 | 20 | -20 | 4 | 0 | 30 | 17 | 71 | 0.36 | -0.24 | 0.19 | 7 | 0 | 6.2 | 5 | 2.3 | 27 | 34 | NW | 24 | 5 | 3 | 23 | 7.6 | 60 | | | | | | |
| | 3828 | 880.5 | 1019.8 | 38 | 19 | 28.2 | -3.2 | 53 | 20 | -9 | 3 | 0 | 28 | 19 | 70 | 0.96 | -0.26 | 0.39 | 11 | 0 | 9.0 | 10 | 5.0 | 29 | 37 | W | 22 | 4 | 6 | 21 | 8.0 | 39 | | | | | | |
| NEBRASKA | 2265 | 911.6 | 1018.9 | 42 | 20 | 30.6 | -1.2 | 52 | 28+ | -10 | 4 | 0 | 29 | 22 | 72 | 0.84 | -0.12 | 0.16 | 15 | 0 | 7.6 | 8 | 0.6 | 5 | 32 | 3 | 1 | 6 | 7 | 18 | 7.0 | | | | | | | |
| | 2829 | 922.5 | 1018.2 | 38 | 18 | 27.7 | -3.2 | 57 | 7 | -1 | 4 | 0 | 31 | 21 | 77 | 1.06 | 0.13 | 0.32 | 11 | 0 | 5.2 | 4 | 3.8 | 34 | 30 | NW | 26+ | 3 | 8 | 20 | 7.6 | 48 | | | | | | |
| | 3190 | 904.8 | 1019.5 | 45 | 24 | 34.3 | 0.6 | 55 | 20 | 1 | 3 | 0 | 27 | 24 | 72 | 1.06 | 0.55 | 0.32 | 11 | 0 | 9.5 | 4 | 1.0 | 30 | 29 | NW | 26+ | 3 | 8 | 20 | 7.6 | 48 | | | | | | |
| | 1841 | 949.9 | 1017.9 | 44 | 23 | 33.5 | -2.2 | 69 | 2 | 12 | 15+ | 0 | 28 | 21 | 64 | 0.42 | -0.85 | 0.25 | 9 | 0 | 3.6 | 2 | 3.5 | 36 | 32 | 34 | 25 | 4 | 6 | 21 | 7.6 | 53 | | | | | | |
| | 1150 | | | 45 | 27 | 36.0 | -2.1 | 70 | 2 | 14 | 28 | 0 | 22 | 21 | | 0.71 | -1.02 | 0.51 | 9 | 0 | 4.7 | 2 | 4.0 | 3 | 43 | S | 2 | 7 | 7 | 17 | 6.9 | | | | | | | |
| NEVADA | 1544 | 956.7 | 1017.2 | 43 | 20 | 29.7 | -3.6 | 62 | 7 | 3 | 12 | 0 | 31 | 20 | 68 | 1.38 | -0.21 | 0.76 | 7 | 12.8 | 9 | 0 | 12.8 | 9 | 2 | S | 2 | 7 | 7 | 17 | 6.8 | 48 | | | | | | |
| | 2775 | 916.7 | 1017.2 | 43 | 20 | 31.3 | -3.7 | 67 | 7 | 6 | 21 | 0 | 30 | 20 | | 0.97 | -0.01 | 0.36 | 12 | 1 | 18.4 | 0 | 2.2 | 2 | 33 | NW | 24 | 6 | 5 | 20 | 7.3 | 52 | | | | | | |
| | 977 | 991.7 | 1018.1 | 47 | 25 | 35.9 | -1.0 | 66 | 2 | 11 | 28 | 0 | 25 | 23 | 63 | 0.85 | -0.60 | 0.48 | 10 | 2 | 5.8 | 2 | 3.8 | 1 | 30 | NW | 27 | 8 | 5 | 15 | 6.7 | 52 | | | | | | |
| | 3557 | 877.4 | 1016.8 | 41 | 20 | 30.4 | -4.9 | 62 | 7 | -3 | 20 | 0 | 29 | 20 | 65 | 0.93 | 0.07 | 0.59 | 9 | 10.2 | 6 | 2.9 | 1 | 33 | 25 | 3 | 5 | 23 | 7.8 | | | | | | | | | |
| | 2587 | | | 39 | 16 | 27.6 | -3.7 | 67 | 7 | -11 | 11 | 0 | 31 | 0 | | 0.64 | -0.37 | 0.35 | 8 | 10.1 | 6 | | | | 37 | NW | 24 | 6 | 6 | 19 | 7.4 | 56 | | | | | | |
| NEW HAMPSHIRE | 5050 | 843.2 | 1017.0 | 49 | 18 | 33.4 | -2.2 | 63 | 24+ | 8 | 19 | 0 | 31 | 19 | 59 | 0.50 | -0.33 | 0.18 | 8 | 0 | 4.6 | 7 | 2.3 | 30 | 29 | 33 | 28+ | 6 | 11 | 14 | 6.5 | 76 | | | | | | |
| | 6253 | 806.3 | 1015.8 | 48 | 18 | 32.9 | -0.6 | 63 | 24 | 2 | 11 | 0 | 31 | 17 | 58 | 0.59 | -0.26 | 0.13 | 13 | 2 | 4.2 | 1 | 1.7 | 32 | 36 | NW | 14 | 9 | 13 | 9 | 5.4 | 87 | | | | | | |
| | 2162 | 937.4 | 1014.0 | 67 | 43 | 54.9 | 0.1 | 83 | 24 | 33 | 19 | 0 | 0 | 22 | 33 | 0.28 | -0.07 | 0.21 | 4 | 0 | 0.0 | 0 | 2.5 | 31 | 50 | N | 26 | 18 | 6 | 7 | 3.9 | 87 | | | | | | |
| | 4434 | 865.9 | 1016.7 | 59 | 24 | 41.4 | -0.1 | 74 | 24 | 14 | 20+ | 0 | 29 | 20 | 45 | 0.19 | -0.49 | 0.14 | 3 | 0 | 1.8 | 1 | 1.7 | 35 | 34 | W | 14 | 13 | 10 | 8 | 4.5 | 75 | | | | | | |
| | 4301 | 867.9 | 1018.2 | 53 | 19 | 35.9 | -2.1 | 67 | 23+ | 7 | 19 | 0 | 31 | 17 | 48 | 0.47 | -0.34 | 0.46 | 2 | 0 | 1.6 | 1 | 2.1 | 33 | 37 | NW | 16 | 9 | 10 | 12 | 5.9 | 73 | | | | | | |
| NEW JERSEY | 342 | 1001.0 | 1014.2 | 41 | 21 | 30.7 | -1.0 | 53 | 20 | -1 | 4 | 0 | 28 | 23 | 72 | 2.78 | -0.48 | 0.86 | 13 | 0 | 14.2 | 8 | 3.7 | 30 | 37 | W | 8 | 7 | 13 | 14 | 6.4 | 60 | | | | | | |
| | 6262 | | | 19 | 4 | 11.0 | -0.7 | 33 | 26 | -14 | 9+ | 0 | 31 | | 13.92 | 8.18 | 3.42 | 25 | 1 | 98.0 | 43 | | | 128y | W | 27 | 3 | 4 | 24 | 8.3 | 31 | | | | | | | |
| NEW MEXICO | 64 | 1013.5 | 1016.1 | 46 | 31 | 38.2 | -2.9 | 60 | 26 | 17 | 10 | 0 | 20 | 27 | 66 | 3.11 | -0.80 | 0.62 | 9 | 1 | T | 0 | 4.3 | 29 | 32 | 7 | 22 | 6 | 10 | 15 | 6.8 | 44 | | | | | | |
| | 11 | | | 47 | 35 | 41.0 | -0.1 | 56 | 25 | 10 | 10+ | 0 | 11 | | 3.26 | -0.75 | 0.51 | 11 | | | | | | 41 | SE | 4 | | | | | | | | | | | | |
| | 7 | 1014.9 | 1015.9 | 46 | 32 | 39.0 | -1.5 | 63 | 26 | 21 | 10 | 0 | 14 | 24 | 57 | 3.42 | -0.67 | 0.68 | 12 | 0 | 4.3 | 4 | 5.0 | 30 | 30 | 27 | 21 | 4 | 12 | 15 | 6.7 | 47 | | | | | | |
| | 56 | | | 44 | 31 | 37.8 | -2.9 | 69 | 26 | 20 | 30 | 0 | 14 | | | 3.60 | -0.24 | 1.08 | 10 | | 2.4 | 2 | | | 38 | S | 26 | 7 | 9 | 15 | 6.6 | 47 | | | | | | |
| | 5311 | 833.7 | 1011.3 | 58 | 31 | 44.1 | -1.7 | 72 | 24 | 25 | 28+ | 0 | 23 | 20 | 45 | 0.42 | -0.06 | 0.17 | 6 | 1 | 3.3 | 1 | 0.8 | 31 | 47 | E | 27 | 9 | 9 | 13 | 5.9 | 67 | | | | | | |
| 4969 | | | 63 | 31 | 46.6 | -2.9 | 78 | 24 | 20 | 12 | 0 | 18 | | | 0.83 | -0.20 | 0.36 | 6 | | 11.9 | 5 | | | 36 | N | 27 | 8 | 10 | 13 | 6.0 | 75 | | | | | | | |
| 3617 | | | | | | | | | | | | | | | | 0.51 | 0.01 | 0.28 | 4 | | 4.9 | 1 | | | | | | | | | | | | | | | | |

See footnotes at end of table

ENGLISH UNITS

MARCH 1970

See footnotes at end of table

ENGLISH UNITS

MARCH 1970

See footnotes at end of table

CLIMATOLOGICAL DATA

ENGLISH UNITS

MARCH 1970

| State and Station | Elevation (ground) | Pressure | | Temperature | | | | | | Precipitation | | | | Wind | | | | No. of days
faster to
sunset. | Sky cover (tenths
[sunrise to sunset]) | Possible sunshine | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------|--------------------|--------------|-----|-------------|-----------------|-----------------|----|-----------------------|----|---------------|---------|------|--------|------|----------------|----|----------------------|-------------------------------------|---|-------------------|--------------------|-------|-----|----------------------------|-----------------|---------------------|-------|-----------|------|------------|--------------------|--------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| | | Station
Q | Mb. | Sea level | Average | | | Departure from normal | | | Highest | Date | Lowest | Date | No. of
days | | Greatest in 24 hours | | | | With thunderstorms | Total | In. | Maximum depth
on ground | Resultant speed | Resultant direction | Speed | Direction | Date | Clear, 0-3 | Partly cloudy, 4-7 | Cloudy, 8-10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | Average maximum | Average minimum | F. | F. | F. | F. | | | | | F. | F. | | | | | | | | | | | | | | | | | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. |

Data from airport unless otherwise specified. U indicates Urban, R indicates Rural, sites.

Precipitation data in column headed "Greatest in 24 hours" are computed on a 24-hour basis without regard to calendar day - data may include precipitation with a measurable amount from the last day of the previous month or the first day of the following month.

Wind directions under resultant direction are in tens of degrees.

Value entered in column "Fastest Mile" is the highest observed 1-minute wind speed when the direction is in tens of degrees. These stations are not equipped with a recording anemometer from which "Fastest Mile" data can be evaluated.

B Number of days maximum 70°F. or above for Alaskan Stations.

Y Peak Gust.

+ And also on an earlier date or dates.

Ø Station pressures apply to elevations shown in the "Elevations - Station Pressure" table of the annual issue of this publication.

CLIMATOLOGICAL DATA

METRIC UNITS

MARCH, 1970

| State and Station | Elevation (ground) | Pressure | | Temperature | | | | Precipitation | | | | Wind | | | No. of days (sunrise to sunset) | Sky cover, tenths (sunrise to sunset) | % | | | | | | | | | | | | | | | | | | |
|-------------------|--------------------|----------|-----------|-----------------|-----------------|---------|-----------------------|---------------|------|--------|------|---------------------------------------|-----------------------------------|-------------|---------------------------------|---------------------------------------|-----------------------|----------------------|---------------|--------------------|-------|------|-------|-------------------------|-----------------|---------------------|-------|-----------|------|------------|--------------------|-------------|-----|-----|----|
| | | Station | Sea level | Average maximum | Average minimum | Average | Departure from normal | Highest | Date | Lowest | Date | Max $\geq 2^{\circ}\text{C}$ or above | Min. 0°C or lower | No. of days | Average relative humidity | Total | Departure from normal | Greatest in 24 hours | 25 mm or more | With thunderstorms | Total | Snow | Sleet | Maximum depth on ground | Resultant speed | Resultant direction | Speed | Direction | Date | Clear, 0-3 | Partly cloudy, 4-7 | Cloudy 8-10 | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ALABAMA | | M. | Mb. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | | |
| BIRMINGHAM | 189 | 992.6 | 1015.3 | 17.8 | 5.0 | 11.4 | -1.1 | 24.4 | 25+ | -3.9 | 16 | 0 | 4 | 4 | 64 | 289 | 136 | 179 | 9 | 3 | 0 | 36 | 102 | 0 | 0.8 | 15 | 11-6 | 16 | 52 | 5 | 6 | 20 | 7.4 | 43 | |
| BIRMINGHAM | 190 | 992.2 | 1015.6 | 16.1 | 3.9 | 9.8 | -1.2 | 23.3 | 25 | -5.6 | 16 | 0 | 5 | 4 | 4.4 | 199 | -44 | 58 | 23 | 0 | 0 | 36 | 102 | 0 | 0.8 | 15 | 11-6 | 16 | 52 | 5 | 6 | 20 | 7.4 | 43 | |
| HUNTSVILLE | 64 | 1007.5 | 1015.6 | 20.0 | 10.6 | 15.1 | -0.6 | 25.0 | 29+ | 0.0 | 14 | 0 | 1 | 1 | 4.4 | 289 | 136 | 179 | 9 | 3 | 0 | 36 | 102 | 0 | 0.8 | 15 | 11-6 | 16 | 52 | 5 | 6 | 20 | 7.4 | 43 | |
| MONTGOMERY | 56 | 1008.1 | 1015.6 | 19.4 | 8.7 | 12.5 | -0.4 | 25.6 | 25 | -1.1 | 14 | 0 | 3 | 3 | 6.7 | 157 | 1 | 63 | 12 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ALASKA | | M. | Mb. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | |
| ANCHORAGE | 35 | 1000.0 | 1005.1 | 5.0 | -1.1 | 1.9 | 6.0 | 9.4 | 28+ | -8.3 | 9 | 0 | 18 | 0 | -3.9 | 7 | -6 | 3 | 7 | 0 | 0 | 36 | 102 | 0 | 0.8 | 15 | 11-6 | 16 | 52 | 5 | 6 | 20 | 7.4 | 43 | |
| ANCHORAGE | 36 | 1011.9 | 1016.7 | 10.0 | -3.9 | 6.8 | 3.6 | 15.6 | 31 | -42.8 | 3+ | 0 | 31 | 0 | -0.6 | 199 | -44 | 58 | 23 | 0 | 0 | 36 | 102 | 0 | 0.8 | 15 | 11-6 | 16 | 52 | 5 | 6 | 20 | 7.4 | 43 | |
| BARTON ISLAND | 12 | 1020.0 | 1027.6 | -23.0 | -31.9 | -28.0 | -5.1 | -13.9 | 31 | -42.8 | 3+ | 0 | 31 | 0 | -31.7 | 12 | -1 | 1 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| BETHEL | 38 | 997.6 | 1003.6 | -2.8 | -12.7 | -7.2 | 5.4 | 6.4 | 14+ | -45.0 | 5 | 0 | 31 | 0 | -33.3 | 12 | -1 | 1 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| BETHEL | 196 | 986.5 | 1012.9 | -7.2 | -18.9 | -12.9 | 5.9 | 4.6 | 20 | -34.6 | 5 | 0 | 31 | 0 | -19.4 | 12 | -1 | 1 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| BIG DELTA | 386 | 994.6 | 1012.9 | -7.2 | -18.9 | -12.9 | 5.9 | 4.6 | 20 | -34.6 | 5 | 0 | 31 | 0 | -19.4 | 12 | -1 | 1 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| COLD BAY | 22 | 994.6 | 998.3 | 2.2 | -2.8 | -0.1 | 1.7 | 8.3 | 30 | -12.2 | 4 | 0 | 28 | 0 | -2.8 | 84 | -40 | 25 | 21 | 0 | 0 | 259 | 72 | 1 | 1.7 | 13 | 20.1 | 12 | 3 | 1 | 4 | 20 | 7.4 | 43 | |
| FAIRBANKS | 133 | 990.5 | 1008.0 | 0.0 | -10.8 | -5.4 | 6.7 | 10.6 | 29 | -27.2 | 4 | 0 | 29 | 0 | -15.0 | 84 | -40 | 25 | 21 | 0 | 0 | 259 | 72 | 1 | 1.7 | 13 | 20.1 | 12 | 3 | 1 | 4 | 20 | 7.4 | 43 | |
| GULKANA | 479 | 949.5 | 1008.7 | 2.2 | -10.0 | -3.9 | 6.7 | 10.6 | 29 | -27.2 | 4 | 0 | 29 | 0 | -15.0 | 84 | -40 | 25 | 21 | 0 | 0 | 259 | 72 | 1 | 1.7 | 13 | 20.1 | 12 | 3 | 1 | 4 | 20 | 7.4 | 43 | |
| HOMER | 20 | 994.5 | 1008.7 | 2.2 | -10.0 | -3.9 | 6.7 | 10.6 | 29 | -27.2 | 4 | 0 | 29 | 0 | -15.0 | 84 | -40 | 25 | 21 | 0 | 0 | 259 | 72 | 1 | 1.7 | 13 | 20.1 | 12 | 3 | 1 | 4 | 20 | 7.4 | 43 | |
| ILLIAMNA | 57 | 1012.9 | 1013.8 | 3.3 | -4.4 | -0.6 | 1.8 | 8.9 | 29 | -12.2 | 9 | 0 | 19 | 0 | -8.9 | 67 | 3 | 30 | 14 | 0 | 0 | 137 | 127 | 0 | 2.5 | 18 | 15.6 | 13 | 17 | 2 | 5 | 24 | 8.3 | 24 | |
| JUNEAU | 4 | 1012.9 | 1013.8 | 5.6 | -0.6 | 2.5 | 3.4 | 8.9 | 29 | -12.2 | 9 | 0 | 19 | 0 | -8.9 | 67 | 3 | 30 | 14 | 0 | 0 | 137 | 127 | 0 | 2.5 | 18 | 15.6 | 13 | 17 | 2 | 5 | 24 | 8.3 | 24 | |
| KING SALMON | 15 | 998.6 | 1000.5 | 2.8 | -4.4 | -0.8 | 6.1 | 10.0 | 28 | -22.8 | 8 | 0 | 24 | 0 | 0.0 | 104 | 21 | 35 | 20 | 0 | 0 | 569 | 457 | 0 | 3.7 | 12 | 17.0 | 12 | 18 | 1 | 2 | 28 | 8.3 | 24 | |
| KOTZESUE | 3 | 1011.7 | 1011.7 | -10.6 | -18.3 | -14.2 | 4.8 | 0.6 | 29 | -36.7 | 8+ | 0 | 30 | 0 | -18.9 | 68 | 6 | -2 | 3 | 0 | 0 | 163 | 76 | 1 | 1.2 | 13 | 13.9 | 13 | 18 | 1 | 2 | 28 | 8.3 | 24 | |
| MC GRATH | 105 | 993.2 | 1006.4 | 3.3 | -14.4 | -9.0 | 4.2 | 5.6 | 26 | -32.2 | 4 | 0 | 30 | 0 | -15.0 | 62 | 26 | 3 | 14 | 0 | 0 | 231 | 406 | 0 | 0.5 | 33 | 10.3 | 22 | 31 | 0 | 10 | 4 | 17 | 9.5 | 65 |
| NOME | 4 | 1007.5 | 1008.1 | -6.7 | -15.6 | -11.2 | 2.2 | 3.3 | 11 | -38.3 | 8+ | 0 | 31 | 0 | -16.1 | 62 | 26 | 3 | 14 | 0 | 0 | 231 | 406 | 0 | 0.5 | 33 | 10.3 | 22 | 31 | 0 | 10 | 4 | 17 | 9.5 | 65 |
| ST. PAUL ISLAND | 7 | 999.3 | 1000.1 | -1.1 | -6.1 | -3.7 | 0.9 | 3.3 | 29 | -17.8 | 7+ | 0 | 28 | 0 | -5.6 | 87 | 31 | 5 | 7 | 20 | 0 | 395 | 76 | 0 | 4 | 21.0 | 7 | 94 | 2 | 9 | 13 | 5 | 13 | 5.7 | 65 |
| SHENYA | 37 | 994.6 | 998.3 | 1.1 | -2.2 | -0.7 | 0.9 | 3.3 | 4+ | -11.1 | 21 | 0 | 27 | 0 | -6.1 | 62 | 26 | 3 | 14 | 0 | 0 | 131 | 102 | 0 | 4 | 21.0 | 7 | 94 | 2 | 9 | 13 | 5 | 13 | 5.7 | 65 |
| SUMMIT | 732 | 918.6 | 1007.5 | -0.6 | -10.6 | -5.4 | 6.2 | 3.9 | 10 | -23.9 | 4 | 0 | 31 | 0 | -8.3 | 81 | 53 | 9 | 18 | 0 | 0 | 693 | 1041 | 0 | 5 | 24.1 | 3 | 27 | 2 | 4 | 25 | 8.5 | 65 | | |
| TALKEETNA | 105 | 992.6 | 1006.0 | 4.4 | -5.0 | -0.3 | 6.2 | 8.9 | 15 | -19.4 | 9 | 0 | 27 | 0 | -4.4 | 75 | 38 | 1 | 12 | 8 | 0 | 206 | 330 | 0 | 1.2 | 13.0 | 22 | 30 | 7 | 4 | 25 | 8.5 | 65 | | |
| UNALAKLEET | 5 | 1006.1 | 1006.6 | -5.6 | -12.8 | -9.0 | 6.2 | 5.6 | 29 | -39.4 | 8 | 0 | 31 | 0 | -15.0 | 63 | 21 | 11 | 8 | 0 | 0 | 170 | 152 | 0 | 4.6 | 7 | 12.9 | 20 | 17 | 4 | 3 | 22 | 7.5 | 65 | |
| YAKUTAT | 9 | 1009.5 | 1010.6 | 5.0 | -1.7 | 1.4 | 1.8 | 10.0 | 10 | -6.7 | 3 | 0 | 25 | 0 | -1.1 | 86 | 437 | 75 | 24 | 0 | 0 | 808 | 152 | 0 | 2.8 | 12 | 19.7 | 13 | 15 | 2 | 3 | 26 | 7.0 | 65 | |
| ARIZONA | | M. | Mb. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | |
| FLAGSTAFF | 2135 | 782.9 | 1013.2 | 7.8 | -5.6 | 0.9 | -1.1 | 17.8 | 24 | -11.1 | 28 | 0 | 31 | 0 | -9.4 | 171 | 135 | 75 | 9 | 0 | 0 | 1709 | 406 | 0 | 1.0 | 24 | 13.0 | 22 | 17 | 13 | 3 | 11 | 4 | 4.8 | 83 |
| PHOENIX | 340 | 973.2 | 1012.4 | 22.8 | 7.8 | 15.3 | 0.3 | 28.9 | 25+ | 3.3 | 21+ | 0 | 0 | 0 | 1.1 | 45 | 57 | 41 | 25 | 5 | 1 | 0 | 0 | 0 | 0.7 | 19 | 17.0 | 5 | 1 | 14 | 8 | 9 | 4.5 | 83 | |
| TUCSON | 788 | 923.8 | 1012.1 | 20.6 | 6.1 | 13.3 | -1.2 | 26.1 | 26+ | 2.2 | 19+ | 0 | 0 | 0 | -2.8 | 40 | 29 | 15 | 14 | 6 | 0 | 0 | 0 | 0 | 1.7 | 24 | 16.1 | 31 | 27 | 13 | 6 | 12 | 5.1 | 88 | |
| WINSLOW | 1492 | 848.0 | 1013.6 | 13.9 | -2.8 | 5.6 | -1.9 | 23.3 | 24 | -9.4 | 19 | 0 | 24 | 0 | -6.7 | 49 | 18 | 8 | 12 | 6 | 0 | 140 | 102 | 0 | 2.0 | 27 | 16.5 | 31 | 27 | 13 | 6 | 12 | 5.1 | 88 | |
| YUMA | 59 | 1005.8 | 1013.0 | 24.4 | 9.4 | 16.9 | -0.3 | 31.7 | 24 | -5.0 | 21 | 0 | 0 | 0 | 1.7 | 41 | 21 | 15 | 15 | 3 | 2 | 0 | 0 | 0 | 1.4 | 16.2 | 40 | 16.2 | 31 | 27 | 13 | 6 | 12 | 5.1 | 90 |
| ARKANSAS | | M. | Mb. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | |
| FORT SMITH | 136 | 998.6 | 1015.5 | 14.4 | 3.3 | 8.8 | -1.8 | 26.1 | 24 | -3.9 | 14 | 0 | 7 | 0 | 2.2 | 67 | 82 | -6 | 24 | 12 | 4 | 5 | 0 | 0 | 0 | 0.9 | 11.2 | NW | 26+ | 6 | 4 | 21 | 7.7 | 42 | |
| LITTLE ROCK | 78 | 1006.1 | 1015.8 | 13.9 | 3.9 | 9.0 | -2.0 | 25.6 | 24 | -2.8 | 14 | 0 | 5 | 0 | 3.9 | 74 | 124 | -2 | 56 | 13 | 3 | 0 | 0 | 0 | 0 | 0.8 | 16.1 | NW | 25+ | 5 | 7 | 19 | 7.5 | 39 | |
| CALIFORNIA | | M. | Mb. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | |
| BAKERSFIELD | 145 | 999.0 | 1016.6 | 21.7 | 8.3 | 14.9 | 1.1 | 28.3 | 25 | 1.7 | 19 | 0 | 0 | 0 | 4.4 | 54 | 12 | -15 | 9 | 4 | 0 | 0 | 0 | 0 | 0 | 0.9 | 10.3 | 30 | 10+ | 14 | 10 | 6 | 3 | 9 | |
| BISHOP | 1252 | 872.7 | 1016.6 | 17.8 | -1.1 | 8.3 | -0.4 | 25.6 | 24 | -9.4 | 19 | 0 | 24 | 0 | 0 | 1.1 | 45 | 57 | 41 | 25 | 5 | 1 | 0 | 0 | 0 | 0.7 | 19 | 17.0 | 5 | 1 | 14 | 8 | 9 | 4.5 | 83 |
| BISHOP | 1252 | 872.7 | 1016.6 | 17.8 | -1.1 | 8.3 | -0.4 | 25.6 | 24 | -9.4 | 19 | 0 | 24 | 0 | 0 | 1.1 | 45 | 57 | 41 | 25 | 5 | 1 | 0 | 0 | 0 | 0.7 | 19 | 17.0 | 5 | 1 | 14 | 8 | 9 | 4.5 | 83 |
| BISHOP | 1252 | 872.7 | 1016.6 | 17.8 | -1.1 | 8.3 | -0.4 | 25.6 | 24 | -9.4 | 19 | 0 | 24 | 0 | 0 | 1.1 | 45 | 57 | 41 | 25 | 5 | 1 | 0 | 0 | 0 | 0.7 | 19 | 17.0 | 5 | 1 | 14 | 8 | 9 | 4.5 | 83 |
| BISHOP | 1252 | 872.7 | 1016.6 | 17.8 | -1.1 | 8.3 | -0.4 | 25.6 | 24 | -9.4 | 19 | 0 | 24 | 0 | 0 | 1.1 | 45 | 57 | 41 | 25 | 5 | 1 | 0 | 0 | 0 | 0.7 | 19 | 17.0 | 5 | 1 | 14 | 8 | 9 | 4.5 | 83 |
| BISHOP | 1252 | 872.7 | 1016.6 | 17.8 | -1.1 | 8.3 | -0.4 | 25.6 | 24 | -9.4 | 19 | 0 | 24 | 0 | 0 | 1.1 | 45 | | | | | | | | | | | | | | | | | | |

CLIMATOLOGICAL DATA

METRIC UNITS

MARCH 1970

| State and Station | Elevation (feet) | Pressure | | Temperature | | | | | | Precipitation | | | | Wind | | | No. of days
(sunrise to sunset) | No. of days
(sunrise to sunset) | Sky cover
(sunrise to sunset) | Possible sunshine | | | | | | | | | | | | | | | |
|-------------------|------------------|----------|-----------|-------------|------|-----------------------|------|---------|-------|---------------|-----|------|-------------|------|---------------------------|-------|------------------------------------|------------------------------------|----------------------------------|-------------------|-----------------------|----------------------|--------------------|------|-------|---------------|-----------------|---------------------|-------|-----------|----------------------------------|------|------------|--------------------|--------------|
| | | Station | Sea level | Average | | Departure from normal | | Highest | | Lowest | | Date | No. of days | | Average relative humidity | Total | | | | | Departure from normal | Greatest in 24 hours | With thunderstorms | Snow | Sheet | Maximum depth | Resultant speed | Resultant direction | Speed | Direction | Fastest mile
(1.6 kilometers) | Date | Clear, 0-3 | Partly cloudy, 4-7 | Cloudy, 8-10 |
| | | | | C. | F. | C. | F. | C. | F. | C. | F. | | C. | F. | | | | | | | | | | | | | | | | | | | | | |
| COLORADO | M | MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 2297 | 766.0 | 7.2 | -11.1 | -1.9 | 15.0 | 24 | -24.4 | 21 | 0 | 31 | 0 | 31 | 22 | 15 | 7 | 10 | 48.5 | 127 | 127 | 1.0 | 5 | 17.4 | 3 | 24 | 3 | 24 | 6 | 0 | 12 | 5.8 | | | | |
| | 1873 | 806.6 | 6.7 | -6.1 | 0.3 | -2.0 | 17.8 | 24+ | -11.7 | 20+ | 0 | 29 | 0 | 29 | 27 | 11 | 8 | 12 | 0 | 505 | 127 | 1.0 | 5 | 17.4 | 3 | 24 | 6 | 0 | 12 | 5.8 | | | | | |
| | 1610 | 832.7 | 7.8 | -6.1 | 0.8 | -1.6 | 19.4 | 24 | -13.3 | 19 | 0 | 30 | 0 | 30 | 34 | 3 | 8 | 16 | 0 | 521 | 127 | 0.6 | 5 | 17.9 | NW | 24 | 5 | 8 | 18 | 6.3 | | | | | |
| | 1476 | 849.0 | 10.3 | -1.7 | 4.3 | -0.9 | 20.0 | 24 | -6.7 | 28 | 0 | 24 | 0 | 24 | 44 | 25 | 16 | 11 | 0 | 315 | 51 | 0 | 6 | 15.6 | NW | 17 | 7 | 4 | 18 | 6.6 | | | | | |
| CONNECTICUT | M | MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1428 | 852.0 | 11.7 | -3.9 | 4.0 | -0.5 | 22.8 | 8 | -12.2 | 28 | 0 | 29 | 0 | 29 | 23 | 10 | 7 | 10 | 0 | 389 | 76 | 1.2 | 7 | 23.2 | N | 24 | 7 | 10 | 14 | 6.3 | | | | | |
| | 2 | 1015.2 | 7.2 | -1.7 | 2.8 | -0.2 | 13.3 | 25 | -8.9 | 30 | 0 | 20 | 0 | 20 | 99 | -9 | 31 | 15 | 1 | 218 | 152 | 2.7 | 30 | 17.0 | 8 | 22 | 7 | 8 | 16 | 6.5 | | | | | |
| | 52 | 1008.1 | 6.7 | -2.8 | 1.7 | -0.5 | 15.0 | 26 | -9.4 | 30 | 0 | 25 | 0 | 25 | 109 | 12 | 33 | 15 | 0 | 373 | 178 | 2.3 | 31 | 13.4 | NW | 10+ | 6 | 8 | 17 | 6.7 | | | | | |
| | 23 | 1013.5 | 8.3 | -0.6 | 3.8 | -1.3 | 18.3 | 26 | -6.7 | 1 | 0 | 15 | 0 | 15 | 92 | -10 | 30 | 9 | 1 | 10 | 1 | 1.5 | 30 | 12.1 | 24 | 26+ | 5 | 9 | 17 | 7.1 | | | | | |
| DELAWARE | M | MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 88 | 1004.7 | 1016.9 | 8.9 | -2.8 | 3.2 | 21.7 | 26 | -10.6 | 1 | 0 | 23 | 0 | 23 | 76 | -10 | 14 | 9 | 0 | 1 | 23 | 1 | 1.0 | 32 | 11.2 | 31 | 26 | 3 | 7 | 21 | 7.9 | | | | |
| | 3 | 1014.6 | 1016.8 | 10.6 | 0.6 | 5.5 | -1.6 | 21.7 | 26 | -5.0 | 15 | 0 | 11 | -2.2 | 62 | -10 | 14 | 9 | 0 | 1 | 23 | 1 | 1.4 | 33 | 13.0 | NE | 29+ | 4 | 7 | 20 | 7.6 | | | | |
| | 4 | 1015.2 | 1016.7 | 19.4 | 12.2 | 15.9 | -0.2 | 25.0 | 31 | 3.3 | 14 | 0 | 0 | 0 | 160 | 45 | 61 | 11 | 5 | 0 | 0 | 0 | 1.1 | 19 | 13.0 | SE | 11 | 3 | 7 | 16 | 6.8 | | | | |
| | 5 | 1016.3 | 1016.7 | 23.9 | 13.3 | 18.6 | 0.9 | 32.2 | 29 | 3.9 | 15 | 1 | 0 | 0 | 472 | 201 | 8 | 6 | 0 | 0 | 0 | 1.0 | 14 | 20.6 | SE | 28 | 8 | 7 | 10 | 14 | 6.3 | | | | |
| FLORIDA | M | MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 7 | 1015.2 | 1016.3 | 23.3 | 11.7 | 17.4 | 0.7 | 30.0 | 31+ | 2.8 | 16 | 0 | 0 | 11.7 | 74 | 253 | 165 | 181 | 13 | 5 | 0 | 0 | 1.7 | 21 | 15.6 | SE | 28 | 8 | 7 | 16 | 6.3 | | | | |
| | 1 | 1015.6 | 1016.1 | 25.0 | 20.6 | 22.7 | 0.2 | 27.8 | 31+ | 15.0 | 14 | 0 | 0 | 0 | 183 | 78 | 56 | 11 | 3 | 0 | 0 | 2.5 | 11 | 12.1 | SW | 8 | 3 | 15 | 13 | 6.7 | | | | | |
| | 65 | 1016.3 | 1016.4 | 23.9 | 13.9 | 18.7 | 0.4 | 30.6 | 30 | 5.0 | 14 | 0 | 0 | 0 | 166 | 58 | 51 | 9 | 0 | 0 | 0 | 0 | 2.1 | 13 | 11.2 | 22 | 28 | 4 | 12 | 16 | 7.1 | | | | |
| | 32 | 1012.5 | 1016.7 | 25.0 | 13.7 | 12.1 | 0.7 | 31.7 | 29 | 8.9 | 15 | 0 | 0 | 0 | 66 | 9 | 41 | 6 | 0 | 0 | 0 | 0 | 1.5 | 10 | 10.7 | 22 | 28 | 4 | 12 | 16 | 7.1 | | | | |
| GEORGIA | M | MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 33 | 1012.5 | 1016.7 | 25.0 | 13.7 | 12.1 | 0.7 | 31.7 | 29 | 8.9 | 15 | 0 | 0 | 0 | 66 | 9 | 41 | 6 | 0 | 0 | 0 | 0 | 1.5 | 10 | 10.7 | 22 | 28 | 4 | 12 | 16 | 7.1 | | | | |
| | 17 | 1013.5 | 1015.9 | 24.8 | 19.4 | 12.9 | 0.1 | 28.1 | 26 | -4.2 | 14 | 0 | 2 | 10.6 | 199 | 46 | 68 | 14 | 6 | 0 | 0 | 0.8 | 16 | 11.2 | 12 | 11 | 6 | 6 | 19 | 7.1 | | | | | |
| | 6 | 1015.9 | 1016.2 | 23.3 | 13.3 | 18.3 | 0.6 | 29.3 | 26 | -3.0 | 16 | 0 | 0 | 0 | 252 | 160 | 124 | 13 | 4 | 0 | 0 | 0.9 | 18 | 11.2 | 33 | 11 | 4 | 10 | 17 | 7.3 | | | | | |
| | 5 | 1015.9 | 1016.6 | 25.0 | 16.1 | 20.6 | -0.4 | 31.1 | 31+ | 4.4 | 15 | 0 | 0 | 0 | 304 | 216 | 124 | 9 | 5 | 0 | 0 | 2.0 | 14 | 15.2 | 1 | 25 | 6 | 7 | 18 | 7.1 | | | | | |
| HAWAII | M | MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 244 | 985.8 | 1014.9 | 17.8 | 5.6 | 11.4 | 0.6 | 23.9 | 10 | -4.4 | 16 | 0 | 5 | 3.9 | 165 | 32 | 100 | 12 | 2 | 0 | 0 | 0.7 | 26 | 9.4 | 27 | 15+ | 6 | 10 | 15 | 6.7 | | | | | |
| | 308 | 978.0 | 1015.0 | 17.8 | 5.6 | 11.6 | 0.8 | 23.9 | 18+ | -6.1 | 16 | 0 | 7 | 3.9 | 165 | 32 | 100 | 12 | 2 | 0 | 0 | 0.9 | 26 | 9.4 | 27 | 15+ | 6 | 10 | 15 | 6.7 | | | | | |
| | 41 | 1009.8 | 1015.1 | 20.0 | 5.6 | 12.6 | -0.2 | 26.7 | 29 | -5.0 | 16 | 0 | 3 | 5.6 | 176 | 50 | 18 | 10 | 2 | 0 | 0 | 1.3 | 24 | 12.5 | W | 15 | 4 | 10 | 16 | 7.2 | | | | | |
| | 117 | 1001.4 | 1014.4 | 19.4 | 6.7 | 12.9 | 0.0 | 25.0 | 29 | -2.2 | 16+ | 0 | 3 | 6.1 | 191 | 53 | 94 | 15 | 5 | 0 | 0 | 0.6 | 24 | 12.5 | 14 | 11 | 4 | 11 | 16 | 7.1 | | | | | |
| IDAHO | M | MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 108 | 1002.7 | 1015.8 | 21.1 | 6.7 | 13.9 | 0.1 | 27.2 | 29 | -2.2 | 16 | 0 | 2 | 7.2 | 235 | 160 | 100 | 12 | 6 | 0 | 0 | 1.0 | 25 | 15.2 | SE | 30+ | 3 | 10 | 18 | 7.2 | | | | | |
| | 194 | 985.8 | 1014.9 | 17.8 | 5.6 | 11.4 | 0.6 | 23.9 | 10 | -4.4 | 16 | 0 | 5 | 3.9 | 165 | 32 | 100 | 12 | 2 | 0 | 0 | 0.7 | 26 | 9.4 | 27 | 15+ | 6 | 10 | 15 | 6.7 | | | | | |
| | 14 | 1013.9 | 1015.7 | 21.1 | 8.9 | 15.1 | 0.5 | 23.9 | 25 | -6.7 | 16 | 0 | 9 | 7.2 | 235 | 160 | 100 | 12 | 6 | 0 | 0 | 1.0 | 25 | 15.2 | SE | 30+ | 3 | 10 | 18 | 7.2 | | | | | |
| | 8 | 1017.6 | 1018.7 | 26.1 | 17.2 | 21.7 | 0.3 | 28.3 | 19 | -0.6 | 16 | 0 | 1 | 16.1 | 216 | 115 | 53 | 13 | 5 | 0 | 0 | 1.2 | 21 | 12.1 | W | 24 | 4 | 12 | 15 | 7.0 | | | | | |
| ILLINOIS | M | MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 201 | 992.2 | 1017.5 | 10.6 | 2.8 | 6.6 | -2.4 | 19.4 | 2 | -2.8 | 15 | 0 | 6 | -5.0 | 181 | 59 | 49 | 16 | 0 | 203 | 203 | 1.3 | 2 | 13.4 | NW | 25 | 7 | 4 | 20 | 7.3 | | | | | |
| | 185 | 993.9 | 1017.1 | 5.6 | -2.8 | 1.6 | 0.1 | 15.0 | 21 | -8.9 | 16 | 0 | 23 | -2.2 | 54 | -14 | 28 | 10 | 2 | 300 | 259 | 1.6 | 3 | 14.8 | NE | 26 | 4 | 11 | 16 | 6.8 | | | | | |
| | 177 | 995.6 | 1017.8 | 5.6 | -3.9 | 0.9 | -1.0 | 15.6 | 3 | -11.7 | 28+ | 0 | 27 | -4.4 | 68 | -1 | 46 | 13 | 2 | 452 | 330 | 1.3 | 36 | 11.6 | NE | 26 | 4 | 11 | 16 | 7.0 | | | | | |
| | 199 | 992.9 | 1017.4 | 6.1 | -2.8 | 1.8 | -1.3 | 15.6 | 3 | -10.0 | 16 | 0 | 27 | -3.9 | 69 | -1 | 32 | 10 | 0 | 223 | 16 | 1.3 | 3 | 13.4 | NW | 20 | 7 | 9 | 15 | 6.6 | | | | | |
| INDIANA | M | MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 221 | 989.5 | 1017.2 | 5.6 | -3.9 | 0.6 | -0.5 | 11.1 | 21 | -13.3 | 28 | 0 | 27 | -5.6 | 67 | -1 | 32 | 10 | 0 | 213 | 182 | 1.6 | 2 | 13.4 | NW | 27 | 4 | 10 | 18 | 7.4 | | | | | |
| | 179 | 993.9 | 1016.6 | 7.8 | -1.1 | 3.3 | -1.3 | 19.4 | 8 | -8.9 | 16 | 0 | 23 | -1.7 | 74 | 91 | -23 | 19 | 2 | 109 | 51 | 1.7 | 36 | 11.6 | NW | 26+ | 6 | 4 | 21 | 7.3 | | | | | |
| | 116 | 1001.7 | 1016.1 | 9.4 | 1.1 | 5.3 | -2.1 | 18.9 | 8 | -7.1 | 16 | 0 | 14 | 1.7 | 80 | 160 | 51 | 43 | 13 | 5 | 386 | 152 | 0.9 | 33 | 11.6 | W | 25 | 3 | 6 | 22 | 8.1 | | | | |
| | 37 | 1001.7 | 1016.1 | 9.4 | 1.1 | 5.3 | -2.1 | 18.9 | 8 | -7.1 | 16 | 0 | 14 | 1.7 | 80 | 160 | 51 | 43 | 13 | 5 | 386 | 152 | 0.9 | 33 | 11.6 | W | 25 | 3 | 6 | 22 | 8.1 | | | | |

METRIC UNITS

[illegible]

See footnotes at end of table

METRIC UNITS

AE 1270

See footnotes at end of table

CLIMATOLOGICAL DATA

METRIC UNITS

| State and Station | Elevation (ground) | Pressure | | Temperature | | | | | | | | | | Precipitation | | | | | Wind | | | | | No. of days
(sunrise to sunset) | | Sky cover, tenths
(sunrise to sunset) | Possible sunshine | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------|--------------------|--------------|-----------|-----------------|----|-----------------|----|------------------------|---------|----|------|--------|----|---------------|-------------|----|-------------------|---------------------------|-------|-----------------------|----------------------|----------------|--------------------|------------------------------------|----|--|-------------------|-------------|-------------|----------------------------|-----------------|---------------------|-------|-----------|------|------------|--------------------|--------------|----|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | | Station
Q | Sea level | Average maximum | | Average minimum | | Average
from normal | Highest | | Date | Lowest | | Date | No. of days | | Average dew point | Average relative humidity | Total | Departure from normal | Greatest in 24 hours | 25 mm. or more | With thunderstorms | | | | | No. of days | Snow, Sleet | Maximum depth
on ground | Resultant speed | Resultant direction | Speed | Direction | Date | Clear, 0-3 | Partly cloudy, 4-7 | Cloudy, 8-10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | C. | F. | C. | F. | | C. | F. | | C. | F. | | C. | F. | | | | | | | | C. | F. | | | | | | | | | | | | | | C. | F. | C. | F. | C. | F. | C. | F. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. |

METRIC UNITS

MARCH 1975

[illegible]

See footnotes at end of table

CLIMATOLOGICAL DATA

METRIC UNITS

MARCH 1970

| State and Station | Pressure | | Temperature | | | | | | | | | | Precipitation | | | | | Wind | | | | No. of days
(sunrise to
sunset) | Sky cover, tenths
(sunrise to sunset) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | Elevation (ground) | Station
Q | Sea level | Average maximum | Average minimum | Average | Departure from normal | Highest | | Lowest | Date | | Average dew point | Average relative humidity | Total | Departure from normal | Greatest in 24 hours | With thunderstorms | Snow, Sleet
on ground | Resultant speed | Resultant direction | | | Speed
(16 kilometers) | Direction | Date | Clear, 0-3 | Partly cloudy, 4-7 | Cloudy, 8-10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | Max 32.2 °C or above | Min. 0 °C or lower | | No. of
days | C. | | | | | | | | | | | | | | | | | | °C. | C. | °C. | °C. | °C. | °C. | °C. | °C. | °C. | °C. | °C. | °C. | °C. | °C. | °C. | °C. | °C. | °C. | °C. | °C. | °C. | °C. | °C. | °C. | °C. | °C. | °C. | °C. | °C. | °C. | °C. | °C. | °C. | °C. | °C. | °C. | °C. | °C. | °C. | °C. | °C. | °C. | °C. | °C. | °C. | °C. | °C. | °C. | °C. | °C. | °C. | °C. | °C. | °C. | °C. | °C. | °C. | °C. | °C. | °C. | °C. | °C. | °C. | °C. | °C. | °C. | °C. | °C. | °C. | °C. | °C. | °C. | °C. | °C. | °C. | °C. | °C. | °C. | °C. | °C. | °C. | °C. | °C. | °C. | °C. | °C. | °C. | °C. | °C. | °C. | °C. | °C. | °C. | °C. | °C. | °C. | °C. | °C. | °C. | °C. | °C. | °C. | °C. | °C. | °C. | °C. | °C. | °C. | °C. | °C. | °C. | °C. | °C. | °C. | °C. | °C. | °C. | °C. | °C. | °C. | °C. | °C. | °C. | °C. | °C. | °C. | °C. | °C. | °C. | °C. | °C. | °C. | °C. | °C. | °C. | °C. | °C. | °C. | °C. | °C. | °C. | °C. | °C. | °C. | °C. | °C. | °C. | °C. | °C. | °C. | °C. | °C. | °C. | °C. | °C. | °C. | °C. | °C. | °C. | 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Data from airport unless otherwise specified. U indicates Urban, R indicates Rural, S indicates.

Precipitation data in column headed "Greatest in 24 hours" are computed on a 24-hour basis without regard to calendar day - data may include precipitation with a measurable amount from the last day of the previous month or the first day of the following month.

Wind directions under resultant direction are in tens of degrees.

Value entered in column "Fastest Mile" is the highest observed 1-minute wind speed when the direction is in tens of degrees. These stations are not equipped with a recording anemometer from which "Fastest Mile" data can be evaluated.

B Number of days maximum 21.1°C. or above for Alaskan Stations.

Y Peak Gust.

+ And also on an earlier date or dates.

Ø Station pressures apply to elevations shown in the "Elevations - Station Pressure" table of the annual issue of this publication.

Data in this table are obtained by conversion from data in the English Units table.

HEATING DEGREE DAYS

(Base 65°F.)

MARCH 1970

| State and station | Current season | | Normals
July through this month | State and station | Current season | | Normals
July through this month | State and station | Current season | | Normals
July through this month | State and station | Current season | | Normals
July through this month |
|---------------------|----------------|--------------------------------|------------------------------------|---------------------|----------------|--------------------------------|------------------------------------|---------------------|----------------|--------------------------------|------------------------------------|-------------------|----------------|--------------------------------|------------------------------------|
| | This month | Period July through this month | | | This month | Period July through this month | | | This month | Period July through this month | | | This month | Period July through this month | |
| ALABAMA | | | | IDAHO | | | | NEBRASKA | | | | TENNESSEE | | | |
| BIRMINGHAM | 377 | 2995 | 2434 | BOISE | 724 | 4647 | 5045 | GRAND ISLAND | 973 | 5910 | 5812 | BRISTOL | 553 | 4476 | 3814 |
| HUNTSVILLE | 466 | 3428 | 2913 | LEWISTON | 681 | 4525 | 4787 | LINCOLN U | 891 | 5523 | 5261 | CHATTANOOGA | 556 | 4118 | 3079 |
| MOBILE | 190 | 1768 | 1518 | POCATELLO | 888 | 5573 | 6018 | 1089 | 6428 | 6200 | 6200 | KNOXVILLE | 496 | 3901 | 3253 |
| MONTGOMERY | 297 | 2580 | 2201 | | | | | NORTH PLATTE | 1041 | 5965 | 5860 | MEMPHIS | 500 | 3457 | 3063 |
| ALASKA | | | | ILLINOIS | | | | OMAHA | 894 | 5777 | 5619 | NASHVILLE | 556 | 3914 | 3349 |
| ANCHORAGE | 910 | 7686 | 8977 | CAIRO U | 647 | 4213 | 3579 | SCOTTSBLUFF | 1065 | 5817 | 5761 | OAK RIDGE R | 550 | 4116 | 3533 |
| ANNETTE | 638 | 4701 | 5610 | CHICAGO O HARE | 929 | 5955 | 5773 | VALENTINE | 1152 | 6360 | 6474 | | | | |
| BARROW | 2591 | 16329 | 15828 | CHICAGO MIDWAY | 919 | 5808 | 5416 | NEVADA | | | | TEXAS | | | |
| BARTER ISLAND | 2619 | 15932 | 15642 | MOLINE | 967 | 6277 | 5730 | ELKO | 974 | 5874 | 6211 | ABILENE | 422 | 2689 | 2510 |
| BETHEL | 1430 | 10719 | 10815 | PEORIA | 914 | 6096 | 5383 | ELY | 990 | 5817 | 6380 | AMARILLO | 713 | 4031 | 3677 |
| BFTILES | 1718 | 12522 | | ROCKFORD | 983 | 6508 | 6018 | LAS VEGAS | 304 | 2333 | 2592 | AUSTIN | 309 | 1953 | 1660 |
| BIG DELTA | 1206 | 10531 | | SPRINGFIELD | 830 | 5612 | 4921 | RENO | 724 | 4557 | 5276 | BROWNSVILLE | 76 | 565 | 600 |
| COLD BAY | 1024 | 7168 | 7547 | INDIANA | | | | WINNEMUCCA | 897 | 5224 | 5672 | CORPUS CHRISTI | 166 | 1098 | 914 |
| FAIRBANKS | 1365 | 11354 | 12434 | EVANSVILLE | 716 | 4939 | 4130 | | | | | DEL RIO | 242 | 1735 | 1486 |
| GULKANA | 1233 | 10947 | | FORT WAYNE | 951 | 6046 | 5506 | NEW HAMPSHIRE | | | | EL PASO | 286 | 2127 | 2595 |
| HOMER | 912 | 7419 | | INDIANAPOLIS | 829 | 5695 | 5051 | CONCORD | 1055 | 6785 | 6374 | FORT WORTH | 404 | 2500 | 2306 |
| ILIAMNA | 1046 | 8461 | | SOUTH BEND | 1007 | 6101 | 5615 | MT WASHINGTON OBS | 1667 | 11197 | 11024 | GALVESTON U | 185 | 1245 | 1205 |
| JUNEAU | 876 | 6967 | 7283 | IOWA | | | | NEW JERSEY | | | | HOUSTON | 252 | 1711 | 1631 |
| KING SALMON | 1066 | 8855 | 9296 | BURLINGTON | 938 | 6080 | 5478 | ATLANTIC CITY | 820 | 4910 | 4244 | LIBBOCK | 577 | 3436 | 3346 |
| KOTZEBUE | 1813 | 12235 | 12858 | DES MOINES | 987 | 6225 | 6069 | ATLANTIC CITY U | 736 | 4207 | 4060 | MIDLAND | 463 | 2804 | 2501 |
| MC GRATH | 1521 | 12013 | 12255 | DUBUQUE | 1035 | 7066 | 6492 | NEWARK | 796 | 4835 | 4520 | PORT ARTHUR | 1533 | 1803 | 1408 |
| NOME | 1647 | 11098 | 11354 | SIOUX CITY | 1069 | 6491 | 6215 | TRENTON U | 836 | 4836 | 4448 | SAN ANGELO | 376 | 2319 | 2189 |
| ST. PAUL ISLAND | 1224 | 8088 | 8439 | WATERLOO | 1104 | 7451 | 6506 | | | | | SAN ANTONIO | 266 | 1751 | 1507 |
| SHEMYA | 1057 | 7190 | 7269 | KANSAS | | | | NEW MEXICO | | | | VICTORIA | 202 | 1320 | 1152 |
| SUMMIT | 1319 | 10629 | | CONCORDIA | 876 | 5189 | 4940 | ALBUQUERQUE | 644 | 4039 | 3979 | WACO | 372 | 2302 | 1964 |
| TALKEETNA | 1036 | 8673 | 9697 | DODGE CITY | 878 | 4524 | 4499 | ROSWELL | 875 | 4700 | 4525 | WICHITA FALLS | 534 | 3232 | 2706 |
| UNALAKLEET | 1520 | 10870 | | GOODLAND | 971 | 5150 | 5356 | | | | | UTAH | | | |
| YAKUTAT | 931 | 7100 | 7185 | TOPEKA | 785 | 5054 | 4716 | NEW YORK | | | | MILFORD | 861 | 5217 | 5612 |
| ARIZONA | | | | WICHITA | 778 | 4591 | 4257 | ALBANY | 1016 | 6643 | 6027 | SALT LAKE CITY | 754 | 4680 | 5276 |
| FLAGSTAFF | 962 | 5703 | 5884 | KENTUCKY | | | | BINGHAMTON | 1113 | 6606 | 6229 | WENDOVER | 740 | 4981 | 5142 |
| PHOENIX | 166 | 1107 | 1690 | COVINGTON | 797 | 5186 | 4702 | BUFFALO | 1076 | 6274 | 6010 | VERMONT | | | |
| TUCSON | 274 | 1580 | 1719 | LEXINGTON | 750 | 4838 | 4253 | NEW YORK U | 809 | 4719 | 4336 | BURLINGTON | 1208 | 7661 | 7112 |
| WINSLOW | 702 | 4271 | 4395 | LOUISVILLE | 697 | 4653 | 4231 | NEW YORK KENNEDY | 844 | 4617 | 4560 | VIRGINIA | | | |
| YUMA | 108 | 857 | 1188 | LOUISIANA | | | | NEW YORK LA GUARDIA | 821 | 4763 | 4267 | LYNCHBURG | 732 | 4543 | 3821 |
| ARKANSAS | | | | ALEXANDRIA | 325 | 2429 | 1852 | ROCHESTER | 1053 | 6209 | 5827 | NORFOLK | 622 | 3645 | 3168 |
| FORT SMITH | 528 | 3466 | 3126 | BATON ROUGE | 198 | 1825 | 1527 | SYRACUSE | 1027 | 6274 | 5893 | RICHMOND | 677 | 4245 | 3593 |
| LITTLE ROCK | 516 | 3435 | 3084 | LAKE CHARLES | 249 | 1853 | 1420 | NORTH CAROLINA | | | | ROANOK | 691 | 4462 | 3824 |
| CALIFORNIA | | | | NEW ORLEANS | 171 | 1672 | 1346 | ASHEVILLE | 557 | 4172 | 4034 | WALLOPS ISLAND | 715 | 4246 | |
| BAKERSFIELD | 195 | 1449 | 1998 | SHREVEPORT | 344 | 2396 | 2103 | CAPE HATTERAS R | 472 | 2910 | 2410 | WASHINGTON | | | |
| BISHOP | 551 | 3662 | 3742 | MAINE | | | | CHARLOTTE | 502 | 3597 | 3013 | OLYMPIA | 665 | 4390 | 4302 |
| BLUE CANYON | 740 | 4010 | 4333 | CARIBOU | 1221 | 8048 | 8258 | GREENSBORO | 525 | 3786 | 3524 | QUILLAYUE | 655 | 4356 | 4532 |
| EUREKA U | 462 | 3159 | 3548 | PORTLAND | 1005 | 6140 | 6353 | RALEIGH | 576 | 3959 | 3179 | SEATTLE TACOMA | 586 | 3593 | 4217 |
| FRESNO | 291 | 2205 | 2286 | MARYLAND | | | | WILMINGTON | 348 | 2754 | 2251 | SPOKANE | 859 | 5747 | 5701 |
| LONG BEACH | 123 | 984 | 1435 | BALTIMORE | 752 | 4476 | 4237 | NORTH DAKOTA | | | | STAMPEDE PASS R | 1038 | 7267 | 7291 |
| LOS ANGELES | 168 | 822 | 1447 | MASSACHUSETTS | | | | BISMARCK | 1423 | 8027 | 7760 | WALLA WALLA U | 593 | 4145 | 4241 |
| LOS ANGELES U | 128 | 712 | 1140 | BLUE HILL OBS R | | | | FARGO | 1431 | 8504 | 8105 | YAKIMA | 655 | 4942 | 5217 |
| MT SHASTA R | 711 | 4408 | 4691 | BOSTON | 969 | 5828 | 5453 | WILLISTON | 1337 | 7964 | 8064 | WEST VIRGINIA | | | |
| OAKLAND | 264 | 1901 | 2345 | WORCESTER | 1068 | 6414 | 5975 | OHIO | | | | BECKLEY | 798 | 5518 | 4769 |
| RED BLUFF | 326 | 2067 | 2300 | ALPENA | | | | AKRON | 972 | 5928 | 5307 | CHARLESTON | 666 | 4749 | 4071 |
| SACRAMENTO | 304 | 2113 | 2449 | DETROIT | 1020 | 5966 | 5448 | CINCINNATI OBS | 795 | 5099 | 4343 | ELKINS | 892 | 5938 | 4985 |
| SANBERG R | 606 | 3422 | 3462 | DETROIT METRO | 993 | 6118 | 5641 | CLEVELAND | 960 | 5874 | 5346 | HUNTINGTON | 737 | 4896 | 4041 |
| SAN DIEGO | 133 | 751 | 1196 | FLINT | 1075 | 6477 | 5933 | COLUMBUS | 861 | 5653 | 5036 | PARKERSBURG U | 779 | 4995 | 4294 |
| SAN FRANCISCO | 260 | 1846 | 2396 | GRAND RAPIDS | 1117 | 6628 | 6025 | DAYTON | 843 | 5463 | 4996 | WISCONSIN | | | |
| SAN FRANCISCO U | 222 | 1840 | 2303 | HOUGHTON LAKE | 1296 | 7488 | 7076 | MANSFIELD | 940 | 5793 | 5555 | GREEN BAY | 1121 | 7534 | 6941 |
| SANTA MARIA | 322 | 1873 | 2287 | LANSING | 1106 | 6419 | 5988 | TOLEDO | 1022 | 6272 | 5649 | LA CROSSE | 1052 | 6916 | 6735 |
| STOCKTON | 322 | 2194 | 2456 | MARGUETTE U | 1234 | 7176 | 6977 | YOUNGSTOWN | 1036 | 6303 | 5569 | MADISON | 1044 | 7101 | 6833 |
| COLORADO | | | | MUSKEGON | 1124 | 6369 | 5714 | OKLAHOMA | | | | MILWAUKEE | 1062 | 6704 | 6486 |
| ALAMOSA | 1123 | 7200 | 7225 | SAULT STE MARIE | 1382 | 8098 | 7560 | OKLAHOMA CITY | 615 | 3764 | 3502 | WYOMING | | | |
| COLORADO SPRINGS | 998 | 5624 | 5438 | MINNESOTA | | | | TULSA | 625 | 3883 | 3600 | CASPER | 1149 | 6285 | 6243 |
| DENVER | 969 | 5390 | 5371 | DULUTH | 1355 | 8539 | 8472 | ASTORIA | 617 | 4063 | 4112 | CHEYENNE | 1113 | 5944 | 6123 |
| GRAND JUNCTION | 772 | 4867 | 5087 | INTERNATIONAL FALLS | 1467 | 9288 | 9161 | BURNS U | 852 | 5545 | 5844 | LANDER | 1087 | 6254 | 6682 |
| PUEBLO | 796 | 4430 | 4844 | MINNEAPOLIS | 1204 | 7456 | 7392 | EUGENE | 557 | 3701 | 3886 | SHERIDAN | 1138 | 6523 | 6525 |
| CONNECTICUT | | | | ROCHESTER | 1189 | 7636 | 7271 | MEACHAM | 1010 | 6082 | 6282 | | | | |
| BRIDGEPORT | 860 | 5067 | 4872 | ST CLOUD | 1336 | 8079 | 7782 | MEDFORD | 549 | 3821 | 4256 | | | | |
| HARTFORD | 922 | 5655 | 5476 | MISSISSIPPI | | | | PENDLETON | 660 | 4516 | 4463 | | | | |
| DELAWARE | | | | JACKSON | 340 | 2614 | 2125 | PORTLAND | 553 | 3515 | 3889 | | | | |
| WILMINGTON | 803 | 4857 | 4425 | MERIDIAN | 330 | 2610 | 2208 | SALEM | 596 | 3912 | 3920 | | | | |
| DIST OF COLUMBIA | | | | MISSOURI | | | | SEXTON SUMMIT R | 796 | 4656 | 4901 | | | | |
| WASHINGTON DULLES | 837 | 5208 | | COLUMBIA REGIONAL | 792 | 5115 | 4589 | PENNSYLVANIA | | | | | | | |
| WASHINGTON NATIONAL | 713 | 4215 | 3862 | KANSAS CITY | 707 | 4569 | 4308 | ALLENTOWN | 940 | 5780 | 5148 | | | | |
| FLORIDA | | | | ST JOSEPH | 715 | 4767 | 4988 | ERIE | 1129 | 6464 | 5518 | | | | |
| APALACHICOLA U | 149 | 1588 | 1275 | ST LOUIS | 751 | 4882 | 4452 | HARRISBURG | 872 | 5272 | 4719 | | | | |
| DAYTONA BEACH | 80 | 1039 | 864 | SPRINGFIELD | 805 | 4808 | 4159 | PHILADELPHIA | 821 | 4909 | 4584 | | | | |
| FORT MYERS | 40 | 599 | 442 | MONTANA | | | | PITTSBURGH | 908 | 5788 | 5273 | | | | |
| JACKSONVILLE | 123 | 1534 | 1218 | BILLINGS | 1095 | 6101 | 6092 | PITTSBURGH U | 870 | 5347 | 4752 | | | | |
| KEY WEST | 2 | 83 | 108 | GLASGOW | 1251 | 7558 | 7863 | SCRANTON | 1022 | 6147 | 5528 | | | | |
| LAKELAND U | 71 | 917 | 661 | GREAT FALLS | 1108 | 6434 | 6538 | WILLIAMSPORT | 945 | 5790 | 5265 | | | | |
| MIAMI | 19 | 268 | 214 | HAVRE | 1216 | 7418 | 7543 | | | | | | | | |
| ORLANDO | 58 | 858 | 760 | HELENA | 1132 | 6702 | 6902 | SOUTH CAROLINA | | | | | | | |
| PENSACOLA | 176 | 1696 | 1427 | KALISPELL | 1062 | 6953 | 6948 | CHARLESTON | 249 | 2405 | 1979 | | | | |
| TALLAHASSEE | 186 | 1951 | 1449 | MILES CITY | 1149 | 6706 | 6769 | CHARLESTON U | 217 | 2123 | 1752 | | | | |
| TAMPA | 81 | 962 | 683 | MISSOULA | 942 | 6481 | 6894 | COLUMBIA | 252 | 2706 | 2403 | | | | |
| WEST PALM BEACH | 36 | 472 | 253 | | | | | GRNVILLE SPRTNBGR | 405 | 3305 | 2876 | | | | |
| GEORGIA | | | | | | | | SOUTH DAKOTA | | | | | | | |
| ATHENS | 379 | 3079 | 2766 | | | | | ABERDEEN | 1294 | 7825 | 7482 | | | | |
| ATLANTA | 371 | 3154 | 2790 | | | | | HURON | 1158 | 7205 | 7248 | | | | |
| AUGUSTA | 320 | 2878 | 2307 | | | | | RAPID CITY | 1157 | 6296 | 6278 | | | | |
| COLUMBUS | 294 | 2630 | 2287 | | | | | SIOUX FALLS | 1192 | 7467 | 6918 | | | | |
| MACON | 253 | 2426 | 2073 | | | | | | | | | | | | |
| ROME | 434 | 3550 | 3115 | | | | | | | | | | | | |
| SAVANNAH | 199 | 2234 | 1774 | | | | | | | | | | | | |

Data from airport unless otherwise specified.
U indicates Urban, R indicates Rural, sites.

(Base 65°F.)

| State and station | Current season | | | State and station | Current season | | | State and station | Current season | | | State and station | Current season | | |
|-------------------|----------------|-----------------------------------|------------------------------------|-------------------|----------------|-----------------------------------|------------------------------------|---------------------|----------------|-----------------------------------|------------------------------------|-------------------|----------------|-----------------------------------|------------------------------------|
| | This month | Period January through this month | Normals January through this month | | This month | Period January through this month | Normals January through this month | | This month | Period January through this month | Normals January through this month | | This month | Period January through this month | Normals January through this month |
| ALABAMA | | | | HAWAII | | | | NEBRASKA | | | | SOUTH DAKOTA | | | |
| BIRMINGHAM | 2 | 2 | | HILO | 195 | 591 | | NORTH PLATTE | 0 | 0 | | ABERDEEN | 3 | 3 | |
| HUNTSVILLE | 5 | 0 | | HONOLULU | 378 | 910 | | OMAHA | 0 | 0 | | MURON | 0 | 0 | |
| MOBILE | 16 | 24 | | KAHULUI | 247 | 595 | | SCOTTSBLUFF | 0 | 0 | | RAPID CITY | 0 | 0 | |
| MONTGOMERY | 4 | 4 | | LIHUE | 293 | 688 | | VALENTINE | 0 | 0 | | SIOUX FALLS | 0 | 0 | |
| ALASKA | | | | IDAHO | | | | NEVADA | | | | TENNESSEE | | | |
| ANCHORAGE | 0 | 0 | | BOISE | 0 | 0 | | ELKO | 0 | 0 | | BRISTOL | 0 | 0 | |
| ANNETTE | 0 | 0 | | LEWISTON | 0 | 0 | | ELY | 0 | 0 | | CHATTANOOGA | 0 | 0 | |
| BARROW | 0 | 0 | | POCATELLO | 0 | 0 | | LAS VEGAS | 0 | 0 | | KNOXVILLE | 0 | 0 | |
| BARTER ISLAND | 0 | 0 | | ILLINOIS | | | | RENO | 0 | 0 | | MEMPHIS | 0 | 3 | |
| BETHEL | 0 | 0 | | CAIRO U | 0 | 0 | | WINNEMUCCA | 0 | 0 | | NASHVILLE | 0 | 0 | |
| BETULUS | 0 | 0 | | CHICAGO O HARE | 0 | 0 | | NEW HAMPSHIRE | | | | OAK RIDGE R | 0 | 0 | |
| BIG DELTA | 0 | 0 | | CHICAGO MIDWAY | 0 | 0 | | CONCORD | 0 | 0 | | TEXAS | | | |
| COLD BAY | 0 | 0 | | MOLINE | 0 | 0 | | MT WASHINGTON OBS | 0 | 0 | | ABILENE | 5 | 7 | |
| FAIRBANKS | 0 | 0 | | PEORIA | 0 | 0 | | ATLANTIC CITY | 0 | 0 | | AMARILLO | 0 | 0 | |
| GULKANA | 0 | 0 | | ROCKFORD | 0 | 0 | | ATLANTIC CITY U | 0 | 0 | | AUSTIN | 10 | 19 | |
| HOMER | 0 | 0 | | SPRINGFIELD | 0 | 0 | | NEWARK | 0 | 0 | | BROWNSVILLE | 116 | 199 | |
| ILIAMNA | 0 | 0 | | INDIANA | | | | TRENTON U | 0 | 0 | | CORPUS CHRISTI | 47 | 75 | |
| JUNEAU | 0 | 0 | | EVANSVILLE | 0 | 0 | | ALBUQUERQUE | 0 | 0 | | DALLAS | 11 | 19 | |
| KING SALMON | 0 | 0 | | FORT WAYNE | 0 | 0 | | CLAYTON | 0 | 0 | | DEL RIO | 15 | 18 | |
| KOTZEBUE | 0 | 0 | | INDIANAPOLIS | 0 | 0 | | ROSWELL | 0 | 0 | | EL PASO | 2 | 2 | |
| MC GRATH | 0 | 0 | | SOUTH BEND | 0 | 0 | | NEW YORK | | | | FORT WORTH | 7 | 12 | |
| NOME | 0 | 0 | | IOWA | | | | BINGHAMTON | 0 | 0 | | GALVESTON U | 3 | 3 | |
| ST. PAUL ISLAND | 0 | 0 | | BURLINGTON | 0 | 0 | | BUFFALO | 0 | 0 | | HOUSTON INTERCON | 7 | 28 | |
| SHEMYA | 0 | 0 | | DES MOINES | 0 | 0 | | NEW YORK U | 0 | 0 | | LUBBOCK | 0 | 0 | |
| SUMMIT | 0 | 0 | | DUBUQUE | 0 | 0 | | NEW YORK KENNEDY | 0 | 0 | | MIDLAND | 0 | 0 | |
| TALKEETNA | 0 | 0 | | SIoux CITY | 0 | 0 | | NEW YORK LA GUARDIA | 0 | 0 | | PORT ARTHUR | 23 | 38 | |
| UNALAKLEET | 0 | 0 | | WATERLOO | 0 | 0 | | ROCHESTER | 0 | 0 | | SAN ANGELO | 7 | 14 | |
| YAKUTAT | 0 | 0 | | KANSAS | | | | SYRACUSE | 0 | 0 | | SAN ANTONIO | 20 | 26 | |
| ARIZONA | | | | CONCORDIA | 0 | 0 | | ASHEVILLE | 0 | 0 | | VICTORIA | 23 | 48 | |
| FLAGSTAFF | 0 | 0 | | DODGE CITY | 0 | 0 | | CAPE HATTERAS R | 0 | 0 | | WACO | 0 | 4 | |
| PHOENIX | 4 | 8 | | GOODLAND | 0 | 0 | | CHARLOTTE | 0 | 0 | | WICHITA FALLS | 4 | 4 | |
| TUCSON | 0 | 5 | | TOPEKA | 0 | 0 | | GREENSBORO | 0 | 0 | | UTAH | | | |
| WINSLOW | 0 | 0 | | WICHITA | 2 | 2 | | PALEIGH | 0 | 0 | | MILFORD | 0 | 0 | |
| YUMA | 32 | 40 | | KENTUCKY | | | | WILMINGTON | 0 | 0 | | SALT LAKE CITY | 0 | 0 | |
| ARKANSAS | | | | COVINGTON | 0 | 0 | | NORTH CAROLINA | | | | WENDOVER | 0 | 0 | |
| FORT SMITH | 2 | 2 | | LEXINGTON | 0 | 0 | | ASHEVILLE | 0 | 0 | | VERMONT | | | |
| LITTLE ROCK | 0 | 3 | | LOUISVILLE | 0 | 0 | | CAPE HATTERAS R | 0 | 0 | | BURLINGTON | 0 | 0 | |
| CALIFORNIA | | | | | | | | | | | | | | | |

- 129 -

STORM SUMMARY

MARCH 1970

| STATE | TORNADOES | | | | | HAILSTORMS | | | | | WINDSTORMS | | | | LIGHTNING | | | | * HEAVY SNOWSTORMS
AND BLIZZARDS | | | | # ICE STORMS | | | | Ø ALL OTHER | | | | | | | |
|--------------------|-----------|------|--------|----------|--------|------------|----------|---------------|-------|--------|------------|---------------|-------|--------|-----------|---------------|-------|--------|-------------------------------------|---------------|-------|--------|--------------|--------|--|--------|-------------|--------|---|---|---|---|----|---|
| | NUMBER | DAYS | DEATHS | INJURIES | DAMAGE | DEATHS | INJURIES | DAMAGE | | DEATHS | INJURIES | DAMAGE | | DEATHS | INJURIES | DAMAGE | | DEATHS | INJURIES | DAMAGE | | DEATHS | INJURIES | DAMAGE | | DEATHS | INJURIES | DAMAGE | | | | | | |
| | | | | | | | | PROP.
ERTY | CROPS | | | PROP.
ERTY | CROPS | | | PROP.
ERTY | CROPS | | | PROP.
ERTY | CROPS | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Alabama | 4 | 3 | 2 | 14 | 5 | 0 | 0 | 2 | 0 | 0 | 0 | 5 | 0 | | | | | | | | | | | | | | | 1 | 0 | 7 | 5 | | | |
| Alaska * | | | | | | | | | | 0 | 1 | 4 | 0 | | | | | | | | | | | | | | | | | | | | | |
| Arizona | | | | | | | | | | 0 | 0 | 5 | 0 | | | | | | | | | | | | | | | | | | | | | |
| Arkansas | | | | | | | | | | 0 | | | | | | | | | | | | | | | | | | | | | | | | |
| California * | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Colorado | | | | | | | | | | 0 | 0 | 4 | 0 | | | | | 1 | 0 | 4 | 0 | | | | | | | | | | | | | |
| Connecticut | | | | | | | | | | | | | | | | | | 0 | 0 | 5 | 0 | | | | | | | | | | | | | |
| Delaware * | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Florida | 5 | 3 | 0 | 7 | 6 | 0 | 0 | 5 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 4 | 0 | | | | | | | | | | | | | | | | | |
| Georgia | 1 | 1 | 0 | 1 | 4 | 0 | 0 | | | 0 | 2 | 5 | 0 | 0 | 0 | 4 | 0 | | | | | | | | | | | 0 | 1 | 5 | 5 | | | |
| Hawaii * | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Idaho | | | | | | | | | | 0 | 0 | 4 | 0 | | | | | 0 | 0 | ? | 0 | | | | | | | | | | | | | |
| Illinois | | | | | | | | | | 0 | 3 | 5 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 5 | 0 | | | | | | | | | | | | | |
| Indiana * | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Iowa * | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kansas | 2 | 1 | 0 | 10 | 6 | 0 | 0 | 3 | 0 | | | | | 0 | 0 | 4 | 0 | 0 | 0 | 4 | 0 | | | | | | | | | | | | | |
| Kentucky | | | | | | | | | | 0 | 0 | 4 | 0 | 0 | 0 | 4 | 0 | | | | | | | | | | | | | | | | | |
| Louisiana | 2 | 1 | 0 | 12 | 5 | | | | | 0 | 1 | 5 | 0 | 0 | 0 | 4 | 0 | ? | ? | ? | 0 | | | | | | | | | | | | | |
| Maine | | | | | | | | | | 0 | 0 | 4 | 0 | | | | | 0 | 0 | 3 | 0 | | | | | | | | | | | | | |
| Maryland | | | | | | | | | | 0 | 0 | 6 | 0 | | | | | | | | | | | | | | | | | | | | | |
| Massachusetts | | | | | | | | | | 0 | 0 | 4 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 5 | 0 | | | | | 0 | 0 | 5 | 0 | | 0 | 0 | 4 | 0 |
| Michigan | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Minnesota * | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mississippi | 1 | 1 | 0 | 0 | 2 | | | | | 0 | 0 | ? | 0 | | | | | | | | | | | | | | | | 0 | 0 | ? | 0 | | |
| Missouri | 2 | 2 | 0 | 0 | 4 | | | | | 0 | 0 | 4 | 0 | | | | | 0 | 0 | 5 | 0 | | | | | | | | | | | | | |
| Montana * | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nebraska * | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nevada | | | | | | | | | | 0 | 1 | 4 | 0 | | | | | | | | | | | | | | | | | | | | | |
| New Hampshire | | | | | | | | | | | | | | | | | | 0 | 0 | 4 | 0 | | | | | | | | | | | | | |
| New Jersey | | | | | | | | | | | | | | | | | | | | 5 | | | | | | | | | | | | | | |
| New Mexico | 2 | 2 | 0 | 0 | 2 | | | | | 0 | 0 | ? | 0 | | | | | | | | | | | | | | | | | | | | | |
| New York | | | | | | | | | | | | 4 | | | | | | | | | | | | | | | | | | | | | | |
| North Carolina * | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| North Dakota * | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ohio | | | | | | | | | | | 7 | 6 | | | | | | | | ? | ? | | | | | | | | | | | | | |
| Oklahoma | | | | | | | | | | | | | | 0 | 1 | 0 | 0 | 0 | 0 | 6 | 0 | | | | | | | | | | | | | |
| Oregon * | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pacific Area * | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pennsylvania | 1 | 1 | 0 | 0 | 5 | | | | | 0 | 2 | 5 | 0 | 0 | 0 | 4 | 0 | 0 | 7 | 4 | 0 | | | | | | | 1 | 0 | 4 | 0 | | | |
| Puerto Rico * | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Rhode Island | | | | | | | | | | | | | | | | | | 0 | 0 | 5 | 0 | | | | | | | | | | | | | |
| South Carolina | | | | | | 0 | 0 | 4 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| South Dakota * | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tennessee | | | | | | 0 | 0 | ? | 0 | 0 | 1 | 5 | 0 | 0 | 0 | 3 | 0 | | | | | | | | | | | | | | | | | |
| Texas | 5 | 1 | 0 | 0 | 5 | | | | | 0 | 8 | 5 | 0 | 0 | 0 | 4 | 0 | 3 | 12 | 4 | 0 | | | | | | | 0 | 0 | 5 | 5 | | | |
| Utah | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Vermont | | | | | | | | | | 0 | 0 | 4 | 0 | | | | | | | | | | | | | | | | | | | | | |
| U. S. Virgin Is. * | | | | | | | | | | | | | | | | | | 0 | 0 | 4 | 0 | | | | | | | | | | | | | |
| Virginia | | | | | | | | | | 0 | 0 | 3 | 0 | | | | | | | | | | | | | | | | | | | | | |
| Washington * | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| West Virginia * | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Wisconsin * | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Wyoming * | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | </ | |

- * Includes crop damage.
- Ø Crop damage.
- * No occurrence of storms or unusual weather phenomena reported.
- ‡ Includes heavy sleet storm.
- # Freezing drizzle and freezing rain, commonly known as glaze.
- Ø For breakdown of "All Others", and for detailed listing of other storms, see the Environmental Data Service, ESSA, monthly publication STORM DATA.
- + Storm damages are placed in categories varying from 1 to 9 as follows:
 - 1 Less than \$50
 - 2 \$50 to \$500
 - 3 \$500 to \$5,000
 - 4 \$5,000 to \$50,000
 - 5 \$50,000 to \$500,000
 - 6 \$500,000 to \$5,000,000
 - 7 \$5,000,000 to \$50,000,000
 - 8 \$50,000,000 to \$500,000,000
 - 9 \$500,000,000 to \$5,000,000,000.

GENERAL SUMMARY OF RIVER AND FLOOD CONDITIONS

MARCH 1970

Elmer R. Nelson, Office of Hydrology

The most damaging floods during March occurred in the Tombigbee Basin in Mississippi and Alabama. Preliminary estimates of damage by the Corps of Engineers was placed at \$3.3 million. Moderate flooding occurred over the lower half of the Alabama Basin. The Cahaba River reached its highest flood level since 1961.

Flash floods occurred on small streams in northern Georgia, Alabama, and Mississippi. Two deaths were attributed to the flash flooding in northeastern Mississippi. Flood damage in the suburbs of Birmingham, Ala., was estimated at \$1.5 million to \$2 million.

ST. LAWRENCE DRAINAGE

Lake Michigan--An ice jam occurred on the lower Grand River, just north of Grand Rapids, Mich., on March 6. The ice jam, about a mile long, caused minor flooding of low areas in Comstock Park and North Park. The ice jam began about 3 p.m. and moved out about 9:30 p.m.

Lake Erie--Minor overflow occurred on the St. Joseph River at Montpelier, Ohio, on the 6th-8th. No damage resulted from the 1.5-foot overflow.

ATLANTIC SLOPE DRAINAGE

Some flash flooding occurred in the headwaters of the Charles River Basin at Franklin, Mass., on the 27th. No damage resulted from the local lowland flooding.

Minor flooding occurred on the Chemung River at Chemung, N. Y., on the 27th. This overflow was due to snowmelt and light rain. No damage was reported.

Reservoir storage in New Jersey and the Delaware River Basin increased during March. All reservoirs in New Jersey were filled to capacity and spilling except Hackensack Water Company with 92% of capacity. Storage in New York City's three reservoirs increased 8.9 billion gallons, with Cannonsville filled to capacity by the end of the month.

Minor flooding occurred on the Neuse River at Smithfield, N. C., and on the lower Cape Fear River on the 23d-26th. This flooding was due to heavy rain on the 21st and 22d. No damage resulted from the flooding.

Heavy rain on the 20th through the 22d over the central and eastern portions of the Carolinas caused general flooding during the last 10 days of the month. Flooding was confined mostly to pastureland and swampland. In the coastal area, especially on the Pee Dee and Edisto, heavy losses occurred to lumbering interests due to flooded swamplands over a long period. People using coastal lowlands were able to remove equipment due to timely and effective warnings by the Weather Bureau.

Heavy rains over south Georgia during the latter part of March produced slight flooding on the lower Savannah and Ogeechee Rivers. Additional rains and runoff continued the flooding into April with considerably higher overflow than during March.

Considerable flooding occurred in the Altamaha Basin in Georgia during the latter part of the month. Flooding began on the Ocmulgee River at Macon, Ga., on the 20th and at Lumber City, Ga., on the 31st. The crests ranged up to 7.3 ft. above flood stage at Macon on the 23d. The Oconee River at Milledgeville, Ga., began to overflow on the 21st. Flooding was still in progress at Mount

Vernon, Ga., at the end of the month. The highest crest reported was 33.9 ft. (flood stage 20 ft.) at Milledgeville on the 23d. The Altamaha River at Charlotte, Ga., began overflowing on the 27th and was still in flood at the end of the month.

EAST GULF OF MEXICO DRAINAGE

General rainfall over the Apalachicola River Basin on the 17th to the 22d caused considerable flooding on tributaries of the Chattahoochee in and near Atlanta, Ga., on the 19th-21st. Sharp rises occurred on the Chattahoochee River as the crest moved downstream, but no flood levels were reached except at Fort Gaines Dam, Ga. Light flooding occurred on the Flint River at Montezuma, Ga., on the 25th and at Albany, Ga., on the 26th-29th. The Apalachicola River at Blountstown, Fla., rose to flood stage on the 22d and to a crest of 21.7 ft. (flood stage 15 ft.) on the 26th. The river had receded to a stage of about 18 ft. by the end of the month.

Moderate flooding, the first in several years, occurred over the lower half of the Alabama Basin from heavy rains on the 19th-22d.

The Cahaba River reached the highest stages since 1961 with crests of 31.0 ft. (flood stage 23 ft.) at Centreville, Ala., and 37.4 ft. (flood stage, 36 ft.) at Marion Junction, Ala. The rise at Centreville was very fast due to very heavy rains of 7 to 9 inches in less than 12 hours. The torrential rains on the 19th resulted in flash flooding across much of north-central Alabama. A few head of cattle were lost on the Cahaba near Centreville and near the confluence of the Coosa and Tallapoosa above Montgomery, Ala. The floods had little effect on urban areas. Heavy rains during the latter part of the month in south Alabama caused a sharp rise to above flood stage on the Choctawhatchee River at Newton, Ala., on the 31st. Flood damages during March were estimated at over \$700,000.

Unusually heavy rains over the headwaters of the Warrior and Tombigbee Rivers in Alabama on the 19th and 20th, with lesser amounts on the 21st and 22d, caused moderately heavy floods in the Tombigbee Basin. Some stations reported as much as 5 inches of rain. Damages were rather extensive and have been estimated at \$3.3 million.

Heavy rains (1 to 4 inches) during the first week in March, and again on the 17th through the 21st, caused the Pearl River to go above flood stage during each rise. Lowlands along the river were inundated. Discharges from Barnett Reservoir produced a stage of 27.4 ft. at Jackson, Miss., 9.4 ft. above flood stage. The levees around the city kept the high water within the system. Minor flooding occurred at Bogalusa and Pearl River, La., during both rises. Flood damages were estimated at \$225,000 by the Corps of Engineers.

MISSISSIPPI SYSTEM

Upper Mississippi Basin--Minor flooding occurred on the Maquoketa River at Maquokets, Iowa, on the 3d-4th and on the Wapsipinicon River at DeWitt, Iowa, on the 4th-7th. These overflows were due to snowmelt, ice breakup, and moderate to heavy rains on the 3d. The damage was negligible.

Moderate to heavy rains (2 to 3 inches) over a narrow belt (about 15 miles wide) extending from Des

GENERAL SUMMARY OF RIVER AND FLOOD CONDITIONS-Continued

MARCH 1970

Moines, Iowa, eastward beyond Williamsburg, Iowa, caused light flooding in that area. The North River immediately south of Des Moines, rose rapidly to above flood stage. The middle and lower portions of the Skunk River and the lower Iowa, also exceeded flood stage. Extensive lowland flooding occurred along the English River. Outside of this area, Blackhawk Creek rose above flood stage at Hudson, Iowa.

Heavy rains caused the Big Muddy River at Murphysboro, Ill., to rise above flood stage on the 2d, 22d, and 26th. No appreciable damage occurred as the flooding was confined mostly to low-lying farmland that had not yet been seeded.

Missouri Basin--Unseasonably warm weather during the first 8 days in March resulted in a partial snow-melt and some flooding in northwest Iowa and southeast South Dakota. Minor flooding occurred on the Vermillion River at Wakonda, S. Dak., on the 7th-8th. At other points the river generally ran from three-fourths to near bankfull. The Big Sioux River crested about 1-1/2 feet lower than in 1969 in central Brookings County, S. Dak., and about 3 feet lower in the southern portion of the county. Six Mile and North Deer Creeks near Brookings, S. Dak., inundated about 2,000 acres each and East Deer Creek about 1,000 acres. Six Mile Creek crested about 1-1/2 feet below the 1969 spring crest except at the west edge of Brookings where an ice jam raised the crest to about 1/2 foot below last year. Minor flooding occurred on the Big Sioux at Brandon, S. Dak., on the 5th. The river ran near bankfull at Watertown, Hawarden, and Akron, and 1/2 to 3/4 bankfull from Dell Rapids through Sioux Falls, S. Dak. The Rock River flood came primarily from the Little Rock River. The area flooded was from Doon on the Little Rock to near the mouth of the Rock River. Lowland flooding occurred on the West Branch of the Floyd on the 3d. The Floyd River overflowed in Sioux County and northern Plymouth County, Iowa, on the 3d-5th. Flooding on the Little Sioux River at Spencer and Linn Grove, Iowa, was minor. The minor damage which occurred was confined to fences and private roads.

One- to 2-inch rains in southern Iowa on the 1st and 2d caused overflow on the East Nishnabotna River at Red Oak, Iowa, and on the Nishnabotna River at Hamburg, Iowa. The crest of 21.7 feet at Hamburg on the 3d was 0.4 foot below the general farm levee and well below the 33-foot crest required to top the levee protecting Hamburg.

Ohio Basin--Persistent rains on the 2d-4th produced minor flooding on the Scioto River at Circleville, Ohio, on the 6th. The river rose to near bankfull stage at LaRue, Ohio, on the 5th and at Piketon, Ohio, on the 7th. No damage resulted from the minor overflow.

A period of light rain during the first 4 or 5 days of the month produced sufficient runoff to cause some overflow of bottomlands along the lower Muscatatuck. The White River rose slightly above flood stage at Anderson, Ind., on the 5th and at Petersburg, Ind., on the lower White, several days later. Another period of light rain, combined with heavier amounts on the 25th and 26th, brought the Wabash River to a foot or two above flood stage from Lafayette, Ind., to Montezuma, Ind. No flood damage was reported.

White Basin--Moderate to heavy rain on the 2d-4th caused the Cache River at Patterson, Ark., to rise above flood stage on the 4th. Additional rain on the 16th-20th kept the Cache above flood stage during the

remainder of the month. No damage was reported in the flooded area.

Red Basin--Minor flooding occurred on the Clear Boggy River in southeastern Oklahoma on the 18th-19th. The Sulphur River in northeast Texas remained above flood stage most of the month at Hagansport and Naples, Tex.

Moderate to heavy rain 2d-4th caused the Saline at Benton, Ark., and the Ouachita at Arkadelphia, Ark., to rise above flood stage on the 3d. Flooding occurred on the Ouachita at Camden, Ark., from the 4th to the 11th. Damage to pastureland and lumbering operations on the Ouachita and Saline Rivers was minor.

LOWER MISSISSIPPI BASIN

Considerable precipitation occurred over the St. Francis Basin in Arkansas during March with the heaviest amounts during the first 4 days of the month and from the 16th through the 19th. Some form of precipitation occurred every day during the remainder of the month. The St. Francis at Fisk, Mo., reached flood stage on the 29th, and continued in flood to April 1. No damage resulted from the 1-foot overflow.

Excessive rains from the 17th through the 21st caused lowland flooding along the Tallahatchie River at Swan Lake, Miss. The Big Black River overflowed its banks over the central and lower reaches of the river. Little or no damage was reported although the water kept the farmers from preparing the lowlands for spring planting. Timber cutting operations were discontinued in the flooded areas.

A significant rise occurred on the Lower Mississippi River during the first half of March, but stages remained well below flood stage all month.

WEST GULF OF MEXICO DRAINAGE

Light flooding occurred on the upper Calcasieu River near Hinston, La., on the 21st-24th. No damage was reported from the overflow.

Minor flooding continued on the Sabine River in northeast Texas from Emory downstream to Longview during March. The crests ranged from 2 ft. above flood stage at Emory to 7 ft. above flood stage at Gladewater, Tex.

Minor to locally moderate flooding occurred on the upper Trinity during the month. Flooding was more pronounced and prolonged along the lowlands from Trinidad to Moss Bluff, Tex. Flooding also occurred on tributaries of the Trinity below Dallas, Tex. Flashflooding occurred in the upper Brazos River Basin at Mineral Wells, Tex., on the 2d, due to locally heavy (5 to 7 inches) in thunderstorms. The East Fork of the Trinity River near Crandall, Tex., crested 2 ft. above flood stage on the 1st, 13th, and 22d. Chambers Creek near Corsicana, Tex., overflowed about 3.5 ft. on the 3d and 4th. Richland Creek near Richland, Tex., overflowed about 2 ft. on the 3d and 4th. Most of the flood damage in the upper Trinity Basin was to pastures and fences in lowlands. A total of 115,000 acres was estimated to have been inundated in the three counties. The Corps of Engineers estimated the flood damage at \$358,000. The damage from the flashflooding at Mineral Wells was estimated at \$200,000.

The San Jacinto River overflowed the top of the spillway at Lake Houston, Tex., from the 12th into April. The highest level was 45.2 ft. on the 19th, 0.7 foot above the spillway.

The Little River at Cameron, Tex., overflowed its banks nearly 3 feet on the 8th-9th. The Navasota River near Easterly, Tex., continued in flood from Feb. 27 to

GENERAL SUMMARY OF WEATHER CONDITIONS-Continued

MARCH 1970

March 2.

Heavy rains on the 2d caused the river to rise above flood stage again on the 3d and continue in flood to the 12th. The crest on March 5 was 1.5 ft. above flood stage

and slightly higher than the crest on Feb. 28.

Heavy rains (3 to 4 inches) over the Atascosa Basin in Texas caused a 4-foot overflow at Whitsett, Tex., on the 12th. It continued in flood from the 11th to the 13th.

FLOOD STAGE DATA

(All dates in March unless otherwise specified)

MARCH 1970

| River and station | Flood stage | Above flood stages -dates | | Crest * | | River and station | Flood stage | Above flood stages -dates | | Crest * | | |
|--|-------------|---------------------------|---------|------------------|----------------|--|-------------|---------------------------|--------|------------------|--------------|---|
| | | From- | To- | Stage | Date | | | From- | To- | Stage | Date | |
| ST. LAWRENCE DRAINAGE | | | | | | EAST GULF OF MEXICO DRAINAGE (Continued) | | | | | | |
| Lumb. Erie | Ft. | | | Ft. | | | Ft. | | | Ft. | | |
| St. Joseph: Montpelier, Ohio | 10 | 6 | 8 | 11.5 | 7 | Pearl: Edinburg, Miss. | 20 | 22 | 27 | 23.8 | 24 | |
| ATLANTIC SLOPE DRAINAGE | | | | | | Jackson, Miss. | 18 | 5 | 12 | 20.8 | 6 | |
| Chemung: Chemung, N. Y. | 12 | 27 | 27 | 13.3 | 27 | Bogalusa, La. | 15 | 21 | Apr. 1 | 27.4 | 28 | |
| Neuse: Smithfield, N. C. | 13 | 23 | 25 | 14.1 | 24 | Pearl River, La. | 12 | 6 | 17 | 17.8 | 8 | |
| Kinston, N. C. | 14 | Feb. 27 | 1 | 14.4 | Feb. 28 | | | 22 | Apr. 8 | 18.2 | Apr. 4 | |
| Cape Fear: Wm. O. Huske L&D (nr.) Tarheel, N. C. | 42 | 23 | 25 | 45.0 | 24 | | | 9 | 12 | 12.4 | 10 | |
| Lock 2, Elizabethtown, N. C. | 20 | 23 | 26 | 23.4 | 24 | | | 26 | Apr. 9 | 12.5 | Apr. 6 | |
| Lumber: Lumberton, N. C. | 9 | 22 | Apr. 13 | 11.1 | 24 | MISSISSIPPI SYSTEM | | | | | | |
| Little Back Bay: Galivants Ferry, S. C. | 9 | 24 | 8 | (9.7
(9.5 | Apr. 28
2 | Upper Mississippi Basin | | | | | | |
| Black: Kingstree, S. C. | 12 | 25 | Apr. 5 | 12.4 | 27 | Maquoketa: Maquoketa, Iowa | 13 | 3 | 4 | 16.6 | 3 | |
| Pee Dee: Peedee, S. C. | 19 | Apr. 24 | Apr. 30 | 19.8 | 27 | Wapsipinicon: DeWitt, Iowa | 10 | 4 | 7 | 10.5 | 6 | |
| Broad: Blair, S. C. | 14 | Apr. 2 | Apr. 3 | 15.4 | Apr. 2 | Black Hawk Creek: Hudson, Iowa | 12 | 3 | 4 | 14.6 | 3 | |
| Santee: Jamestown, S. C. | 8 | 24 | Apr. 6 | 14.0 | 31 | Iowa: Wapello, Iowa | 10 | 5 | 6 | 11.8 | 6 | |
| North Fork Edisto: Orangeburg, S. C. | 8 | (Apr. 24 | Apr. 28 | 8.2 | Apr. 27 | Skunk: Oskaloosa, Iowa | 15 | 3 | 4 | 18.0 | 3 | |
| Edisto: Girhans Ferry, S. C. | 10 | Apr. 1 | Apr. 3 | 8.7 | Apr. 2 | Brighton, Iowa | 14 | 7 | 8 | 15.6 | 7 | |
| Savannah: Clio, Ga. | 11 | 25 | Apr. 12 | 12.4 | 29-30 | North: Norwalk, Iowa | 18 | 3 | 5 | 22.2 | 4 | |
| Ogeechee: Dover, Ga. | 7 | 29 | Apr. 14 | (7.9
(8.6 | Apr. 31
7 | Big Muddy: Murphysboro, Ill. | 16 | 2 | 16 | 23.5 | 9 | |
| Eden, Ga. | 9 | 24 | Apr. 20 | (9.8
(11.7 | Apr. 26
7-8 | | | 22 | 24 | 16.2 | 23 | |
| Ocmulgee: Macon, Ga. | 18 | 20 | 24 | 25.3 | 23 | | | 26 | Apr. 7 | 21.7 | 31 | |
| Hawkinsville, Ga. | 25 | 26 | 27 | 27.0 | 26 | Missouri Basin | | | | | | |
| Lumber City, Ga. | 15 | 31 | 1/ | 16.1 | 31 | Vermillion: Wakonda, S. Dak. | 14 | 7 | 8 | 14.2 | 8 | |
| Oconee: Milledgeville, Ga. | 20 | 21 | 24 | 33.9 | 23 | Big Sioux: Brookings, S. Dak. | 6 | 3 | 11 | 11.2 | 5 | |
| Dublin, Ga. | 21 | 25 | 28 | 24.9 | 26 | Brandon, S. Dak. | 10 | 5 | 6 | 10.3 | 5 | |
| Mt. Vernon, Ga. | 16 | 27 | 1/ | 19.15 | 28 | Rock: Rock Valley, Iowa | 11 | 3 | 5 | 13.1 | 4 | |
| Altamaha: Charlotte, Ga. | 15 | 27 | 1/ | 19.9 | 31 | West Branch Floyd: Struble, Iowa | 14 | 3 | 3 | 14.1 | 3 | |
| EAST GULF OF MEXICO DRAINAGE | | | | | | Floyd: Alton, Iowa | 12 | 3 | 5 | 15.5 | 3 | |
| Chattahoochee: Fort Gaines Dam, Ga. | 134 | 23 | 23 | 134.5 | 23 | Little Sioux: Spencer, Iowa | 10 | 4 | 5 | (12.0
(11.0 | 4
5 | |
| Flint: Montezuma, Ga. | 20 | 25 | 25 | 20.2 | 25 | | | 12 | 8 | 8 | 12.1 | 8 |
| Albany, Ga. | 20 | 26 | 29 | 22.6 | 27 | East Nishnabotna: Red Oak, Iowa | 15 | 2 | 3 | 18.9 | 2 | |
| Apalachicola: Jim Woodruff Dam, Fla. | 66 | 24 | 25 | 66.9 | 25 | Nishnabotna: Hamburg, Iowa | 18 | 3 | 3 | 21.7 | 3 | |
| Blountstown, Fla. | 15 | 22 | Apr. 11 | (21.7
(21.2 | Apr. 26
3 | Ohio Basin | | | | | | |
| Choctawhatchee: Newton, Ala. | 19 | 31 | Apr. 2 | 27.9 | Apr. 1 | Scioto: Circleville, Ohio | 14 | 6 | 6 | 14.3 | 5 | |
| | 12 | Apr. 2 | Apr. 7 | #13.5 | Apr. 5 | Muscatahuck: Austin, Ind. | 116 | 4 | 7 | 19.8 | 5 | |
| Coosa: Gadsden, Ala. | 511 | 23 | 24 | 511.5 | 23 | | | 20 | 21 | 17.1 | 21 | |
| Cahaba: Centreville, Ala. | 23 | 20 | 22 | 31.0 | 20 | White: Anderson, Ind. | 10 | 5 | 6 | 10.5 | 5 | |
| Marion Junction, Ala. | 36 | 23 | 24 | 37.4 | 24 | Petersburg, Ind. | 16 | 9 | 10 | 16.2 | 10 | |
| Alabama: Montgomery, Ala. | 35 | 21 | 25 | 40.6 | 23 | Little Wabash: Wilcox, Ill. | 16 | 26 | 28 | 18.3 | 27 | |
| Millers Ferry L&D, Ala. | 72 | 24 | 28 | 74.5 | 26-27 | Wabash: Lafayette, Ind. | 11 | 27 | 28 | 13.6 | 28 | |
| Claiborne, Ala. | 40 | 24 | 1 | 44.7 | 29 | Covington, Ind. | 16 | 28 | 29 | 16.75 | 28 | |
| Old Town Creek: Tupelo, Miss. | 21 | 20 | 20 | 23.3 | 20 | Montezuma, Ind. | 14 | 28 | 30 | 15.1 | 29 | |
| East Fork Tombigbee: Fulton, Miss. | 16 | 20 | 24 | 17.85 | 20 | White Basin | | | | | | |
| Tibbee: Tibbee, Miss. | 23 | 20 | 24 | 28.9 | 21 | Cache: Patterson, Ark. | 7 | 4 | 1/ | 8.8 | 10 | |
| Noxubee: Macon, Miss. | 26 | 20 | 25 | 27.8 | 21 | Red Basin | | | | | | |
| Black Warrior: Oliver L&D, Tuscaloosa, Ala. | 47 | 20 | 23 | 61.9 | 20 | Clear Boggy: Caney, Okla. | 19 | 18 | 19 | 20.2 | 18 | |
| Warrior L&D, Ala. | 30 | 21 | 29 | 41.9 | 24 | Sulphur: Hagansport, Tex. | 38 | Feb. 25 | 8 | (45.8
(46.5 | Feb. 25
4 | |
| Tombigbee: Amory, Miss. | 20 | 20 | 25 | 25.1 | 21 | | | 12 | 14 | 43.0 | 13 | |
| Aberdeen, Miss. | 34 | 21 | 24 | 38.0 | 22, 23 | | | 16 | 24 | 46.0 | 18 | |
| Columbus, Miss. | 29 | 21 | 26 | 34.4 | 27 | Naples, Tex. | 22 | 2 | 14 | 28.9 | 7 | |
| Gainesville, Ala. | 36 | 22 | Apr. 2 | 46.8 | 28 | | | 20 | 29 | 26.2 | 22 | |
| Demopolis, Ala. | 48 | 22 | Apr. 4 | 59.8 | 27 | Saline: Benton, Ark. | 20 | 3 | 4 | 20.9 | 4 | |
| Jackson L&D, Ala. | 43 | 23 | Apr. 9 | 52.6 | Apr. 1 | Ouachita: Arkadelphia, Ark. | 17 | 3 | 4 | 19.0 | 4 | |
| | | | | | | Camden, Ark. | 26 | 4 | 11 | 33.0 | 8 | |
| | | | | | | Lower Mississippi Basin | | | | | | |
| | | | | | | St. Francis: | | | | | | |
| | | | | | | Fisk, Mo. | 20 | 29 | Apr. 2 | 21.0 | 31 | |

FLOOD STAGE DATA

(All dates in March unless otherwise specified)

MARCH 1970

| River and station | Flood stage | Above flood stages
-dates | | Crest * | |
|---|-------------|------------------------------|---------------|----------------------|---------------|
| | | From- | To- | Stage | Date |
| MISSISSIPPI SYSTEM
(Continued) | | | | | |
| <u>Lower Mississippi Basin</u>
(Continued) | | | | | |
| Tallahatchie:
Swan Lake, Miss. | 26 | 23 | 26 | 26.3 | 24 |
| Big Black:
Bovina, Miss. | 28 | 27 | Apr. 5 | 30.2 | 2 |
| WEST GULF OF MEXICO DRAINAGE | | | | | |
| Calcasieu:
Hineston, La. | 12 | 21 | 24 | 12.6 | 22 |
| Sabine: Emory, Tex. | 12 | Feb. 28 | 28 | 14.0 | 4 |
| Mineola, Tex. | 14 | 18 | Apr. 3 | 17.5 | 26 |
| Quitman, Tex. | 16 | 3 | 6 | 16.6 | 5 |
| Gladewater, Tex. | 26 | 19 | Apr. 3 | 33.0 | 27 |
| Longview, Tex. | 25 | 18 | Apr. 5 | 29.9 | 31 |
| Neches: Alto (nr.), Tex. | 16 | 12 | 24 | #17.2 | 19 |
| Trinity: Dallas, Tex. | 30 | (1
(17
(21 | 1
18
23 | 30.1
30.7
32.4 | 1
18
22 |

| River and station | Flood stage | Above flood stages
-dates | | Crest * | |
|---|-------------|------------------------------|----------------|----------------------|---------------|
| | | From- | To- | Stage | Date |
| WEST GULF OF MEXICO DRAINAGE
(Continued) | <i>Ft.</i> | | | <i>Ft.</i> | |
| Trinity: (Continued) | | | | | |
| Rosser, Tex. | 26 | 2
21 | 4
24 | 27.65
26.8 | 4
23 |
| Trinidad, Tex. | 28 | 1
13
19 | 11
14
31 | 38.2
28.4
33.4 | 5
14
26 |
| Long Lake, Tex. | 35 | 2
25 | 18
31 | 42.8
36.9 | 8
30 |
| Liberty, Tex. | 24 | 12 | 25 | #26.2 | 21-22 |
| Moss Bluff, Tex. | 4 | 4 | <u>1</u> / | 7.65 | 22 |
| San Jacinto:
Lake Houston, Tex. | 44.5 | 12 | <u>1</u> | 45.2 | 19 |
| Little: Cameron, Tex. | 30 | 8 | 9 | #32.9 | 8 |
| Navasota:
Easterly (nr.), Tex. | 14 | Feb. 27
3 | 2
12 | #15.4
#15.5 | 28
5 |
| Altascosa:
Whitsett, Tex. | 20 | 11 | 13 | 24.0 | 12 |

* Provisional

Highest stage observed

1/ Continued at the end of the month

T Tentative

RAWINSONDE DATA

Average monthly values

MARCH 1970

| S. BARKLEY, N. Y.
1036 MB | | | | | | | | | | ALBUQUERQUE, N. MEX.
834 MB | | | | | | | | | | AMARILLO, TEXAS
848 MB | | | | | | | | | | ANCHORAGE, ALASKA
400 MB | | | | | | | | | | ANNETTE, ALASKA
1012 MB | | | | | | | | | |
|--------------------------------|---------------------|----------------|-------------|-----------|-----------|-------|--------|----------------|-------------|--------------------------------|-----------|-------|--------|----------------|-------------|-----------|-----------|-------|--------|---------------------------|-------------|-----------|-----------|-------|--------|----------------|-------------|-----------|-----------|-----------------------------|--------|----------------|-------------|-----------|-----------|-------|--------|----------------|-------------|----------------------------|-----------|-------|--------|--|--|--|--|--|--|
| Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | |
| Standard pressure surface (mb) | No. of observations | Dynamic height | Temperature | Dew Point | Direction | Speed | M.P.S. | Dynamic height | Temperature | Dew Point | Direction | Speed | M.P.S. | Dynamic height | Temperature | Dew Point | Direction | Speed | M.P.S. | Dynamic height | Temperature | Dew Point | Direction | Speed | M.P.S. | Dynamic height | Temperature | Dew Point | Direction | Speed | M.P.S. | Dynamic height | Temperature | Dew Point | Direction | Speed | M.P.S. | Dynamic height | Temperature | Dew Point | Direction | Speed | M.P.S. | | | | | | |
| SURFACE | 31 | 86 | -3.4 | -6.8 | 3 | 2.2 | 31 | 1,619 | 1.7 | -0.1 | 11 | 1.1 | 31 | 1,095 | 1.5 | -4.2 | 01 | 4 | 31 | 45 | 1.5 | -3.8 | 17 | 1.8 | 31 | 37 | 5.5 | -2 | 13 | 1.4 | 31 | 37 | 5.5 | -2 | 13 | 1.4 | 31 | 37 | 5.5 | -2 | 13 | 1.4 | | | | | | | |
| 1000 | 31 | 129 | -3.4 | -6.8 | 3 | 2.2 | 31 | 1,619 | 1.7 | -0.1 | 11 | 1.1 | 31 | 1,095 | 1.5 | -4.2 | 01 | 4 | 31 | 45 | 1.5 | -3.8 | 17 | 1.8 | 31 | 37 | 5.5 | -2 | 13 | 1.4 | 31 | 37 | 5.5 | -2 | 13 | 1.4 | 31 | 37 | 5.5 | -2 | 13 | 1.4 | | | | | | | |
| 950 | 31 | 532 | -3.4 | -6.8 | 3 | 2.2 | 31 | 1,619 | 1.7 | -0.1 | 11 | 1.1 | 31 | 1,095 | 1.5 | -4.2 | 01 | 4 | 31 | 45 | 1.5 | -3.8 | 17 | 1.8 | 31 | 37 | 5.5 | -2 | 13 | 1.4 | 31 | 37 | 5.5 | -2 | 13 | 1.4 | 31 | 37 | 5.5 | -2 | 13 | 1.4 | | | | | | | |
| 900 | 31 | 450 | -3.4 | -6.8 | 3 | 2.2 | 31 | 1,619 | 1.7 | -0.1 | 11 | 1.1 | 31 | 1,095 | 1.5 | -4.2 | 01 | 4 | 31 | 45 | 1.5 | -3.8 | 17 | 1.8 | 31 | 37 | 5.5 | -2 | 13 | 1.4 | 31 | 37 | 5.5 | -2 | 13 | 1.4 | 31 | 37 | 5.5 | -2 | 13 | 1.4 | | | | | | | |
| 850 | 31 | 367 | -3.4 | -6.8 | 3 | 2.2 | 31 | 1,619 | 1.7 | -0.1 | 11 | 1.1 | 31 | 1,095 | 1.5 | -4.2 | 01 | 4 | 31 | 45 | 1.5 | -3.8 | 17 | 1.8 | 31 | 37 | 5.5 | -2 | 13 | 1.4 | 31 | 37 | 5.5 | -2 | 13 | 1.4 | 31 | 37 | 5.5 | -2 | 13 | 1.4 | | | | | | | |
| 800 | 31 | 307 | -3.4 | -6.8 | 3 | 2.2 | 31 | 1,619 | 1.7 | -0.1 | 11 | 1.1 | 31 | 1,095 | 1.5 | -4.2 | 01 | 4 | 31 | 45 | 1.5 | -3.8 | 17 | 1.8 | 31 | 37 | 5.5 | -2 | 13 | 1.4 | 31 | 37 | 5.5 | -2 | 13 | 1.4 | 31 | 37 | 5.5 | -2 | 13 | 1.4 | | | | | | | |
| 750 | 31 | 247 | -3.4 | -6.8 | 3 | 2.2 | 31 | 1,619 | 1.7 | -0.1 | 11 | 1.1 | 31 | 1,095 | 1.5 | -4.2 | 01 | 4 | 31 | 45 | 1.5 | -3.8 | 17 | 1.8 | 31 | 37 | 5.5 | -2 | 13 | 1.4 | 31 | 37 | 5.5 | -2 | 13 | 1.4 | 31 | 37 | 5.5 | -2 | 13 | 1.4 | | | | | | | |
| 700 | 31 | 181 | -3.4 | -6.8 | 3 | 2.2 | 31 | 1,619 | 1.7 | -0.1 | 11 | 1.1 | 31 | 1,095 | 1.5 | -4.2 | 01 | 4 | 31 | 45 | 1.5 | -3.8 | 17 | 1.8 | 31 | 37 | 5.5 | -2 | 13 | 1.4 | 31 | 37 | 5.5 | -2 | 13 | 1.4 | 31 | 37 | 5.5 | -2 | 13 | 1.4 | | | | | | | |
| 650 | 31 | 114 | -3.4 | -6.8 | 3 | 2.2 | 31 | 1,619 | 1.7 | -0.1 | 11 | 1.1 | 31 | 1,095 | 1.5 | -4.2 | 01 | 4 | 31 | 45 | 1.5 | -3.8 | 17 | 1.8 | 31 | 37 | 5.5 | -2 | 13 | 1.4 | 31 | 37 | 5.5 | -2 | 13 | 1.4 | 31 | 37 | 5.5 | -2 | 13 | 1.4 | | | | | | | |
| 600 | 31 | 64 | -3.4 | -6.8 | 3 | 2.2 | 31 | 1,619 | 1.7 | -0.1 | 11 | 1.1 | 31 | 1,095 | 1.5 | -4.2 | 01 | 4 | 31 | 45 | 1.5 | -3.8 | 17 | 1.8 | 31 | 37 | 5.5 | -2 | 13 | 1.4 | 31 | 37 | 5.5 | -2 | 13 | 1.4 | 31 | 37 | 5.5 | -2 | 13 | 1.4 | | | | | | | |
| 550 | 31 | 10 | -3.4 | -6.8 | 3 | 2.2 | 31 | 1,619 | 1.7 | -0.1 | 11 | 1.1 | 31 | 1,095 | 1.5 | -4.2 | 01 | 4 | 31 | 45 | 1.5 | -3.8 | 17 | 1.8 | 31 | 37 | 5.5 | -2 | 13 | 1.4 | 31 | 37 | 5.5 | -2 | 13 | 1.4 | 31 | 37 | 5.5 | -2 | 13 | 1.4 | | | | | | | |
| 500 | 31 | 0 | -3.4 | -6.8 | 3 | 2.2 | 31 | 1,619 | 1.7 | -0.1 | 11 | 1.1 | 31 | 1,095 | 1.5 | -4.2 | 01 | 4 | 31 | 45 | 1.5 | -3.8 | 17 | 1.8 | 31 | 37 | 5.5 | -2 | 13 | 1.4 | 31 | 37 | 5.5 | -2 | 13 | 1.4 | 31 | 37 | 5.5 | -2 | 13 | 1.4 | | | | | | | |
| 450 | 31 | 0 | -3.4 | -6.8 | 3 | 2.2 | 31 | 1,619 | 1.7 | -0.1 | 11 | 1.1 | 31 | 1,095 | 1.5 | -4.2 | 01 | 4 | 31 | 45 | 1.5 | -3.8 | 17 | 1.8 | 31 | 37 | 5.5 | -2 | 13 | 1.4 | 31 | 37 | 5.5 | -2 | 13 | 1.4 | 31 | 37 | 5.5 | -2 | 13 | 1.4 | | | | | | | |
| 400 | 31 | 0 | -3.4 | -6.8 | 3 | 2.2 | 31 | 1,619 | 1.7 | -0.1 | 11 | 1.1 | 31 | 1,095 | 1.5 | -4.2 | 01 | 4 | 31 | 45 | 1.5 | -3.8 | 17 | 1.8 | 31 | 37 | 5.5 | -2 | 13 | 1.4 | 31 | 37 | 5.5 | -2 | 13 | 1.4 | 31 | 37 | 5.5 | -2 | 13 | 1.4 | | | | | | | |
| 350 | 31 | 0 | -3.4 | -6.8 | 3 | 2.2 | 31 | 1,619 | 1.7 | -0.1 | 11 | 1.1 | 31 | 1,095 | 1.5 | -4.2 | 01 | 4 | 31 | 45 | 1.5 | -3.8 | 17 | 1.8 | 31 | 37 | 5.5 | -2 | 13 | 1.4 | 31 | 37 | 5.5 | -2 | 13 | 1.4 | 31 | 37 | 5.5 | -2 | 13 | 1.4 | | | | | | | |
| 300 | 31 | 0 | -3.4 | -6.8 | 3 | 2.2 | 31 | 1,619 | 1.7 | -0.1 | 11 | 1.1 | 31 | 1,095 | 1.5 | -4.2 | 01 | 4 | 31 | 45 | 1.5 | -3.8 | 17 | 1.8 | 31 | 37 | 5.5 | -2 | 13 | 1.4 | 31 | 37 | 5.5 | -2 | 13 | 1.4 | 31 | 37 | 5.5 | -2 | 13 | 1.4 | | | | | | | |
| 250 | 31 | 0 | -3.4 | -6.8 | 3 | 2.2 | 31 | 1,619 | 1.7 | -0.1 | 11 | 1.1 | 31 | 1,095 | 1.5 | -4.2 | 01 | 4 | 31 | 45 | 1.5 | -3.8 | 17 | 1.8 | 31 | 37 | 5.5 | -2 | 13 | 1.4 | 31 | 37 | 5.5 | -2 | 13 | 1.4 | 31 | 37 | 5.5 | -2 | 13 | 1.4 | | | | | | | |
| 200 | 31 | 0 | -3.4 | -6.8 | 3 | 2.2 | 31 | 1,619 | 1.7 | -0.1 | 11 | 1.1 | 31 | 1,095 | 1.5 | -4.2 | 01 | 4 | 31 | 45 | 1.5 | -3.8 | 17 | 1.8 | 31 | 37 | 5.5 | -2 | 13 | 1.4 | 31 | 37 | 5.5 | -2 | 13 | 1.4 | 31 | 37 | 5.5 | -2 | 13 | 1.4 | | | | | | | |
| 150 | 31 | 0 | -3.4 | -6.8 | 3 | 2.2 | 31 | 1,619 | 1.7 | -0.1 | 11 | 1.1 | 31 | 1,095 | 1.5 | -4.2 | 01 | 4 | 31 | 45 | 1.5 | -3.8 | 17 | 1.8 | 31 | 37 | 5.5 | -2 | 13 | 1.4 | 31 | 37 | 5.5 | -2 | 13 | 1.4 | 31 | 37 | 5.5 | -2 | 13 | 1.4 | | | | | | | |
| 100 | 31 | 0 | -3.4 | -6.8 | 3 | 2.2 | 31 | 1,619 | 1.7 | -0.1 | 11 | 1.1 | 31 | 1,095 | 1.5 | -4.2 | 01 | 4 | 31 | 45 | 1.5 | -3.8 | 17 | 1.8 | 31 | 37 | 5.5 | -2 | 13 | 1.4 | 31 | 37 | 5.5 | -2 | 13 | 1.4 | 31 | 37 | 5.5 | -2 | 13 | 1.4 | | | | | | | |
| 50 | 31 | 0 | -3.4 | -6.8 | 3 | 2.2 | 31 | 1,619 | 1.7 | -0.1 | 11 | 1.1 | 31 | 1,095 | 1.5 | -4.2 | 01 | 4 | 31 | 45 | 1.5 | -3.8 | 17 | 1.8 | 31 | 37 | 5.5 | -2 | 13 | 1.4 | 31 | 37 | 5.5 | -2 | 13 | 1.4 | 31 | 37 | 5.5 | -2 | 13 | 1.4 | | | | | | | |
| 0 | 31 | 0 | -3.4 | -6.8 | 3 | 2.2 | 31 | 1,619 | 1.7 | -0.1 | 11 | 1.1 | 31 | 1,095 | 1.5 | -4.2 | 01 | 4 | 31 | 45 | 1.5 | -3.8 | 17 | 1.8 | 31 | 37 | 5.5 | -2 | 13 | 1.4 | 31 | 37 | 5.5 | -2 | 13 | 1.4 | 31 | 37 | 5.5 | -2 | 13 | 1.4 | | | | | | | |

See reference table at end of table

RAWINSONDE DATA

Average monthly values

MARCH 1997

| CHARLESTON, S. C.
1014 MB | | | | | | | | | | | | CHIHUAHUA, MEXICO
854 MB | | | | | | | | | | | | COLD BAY, ALASKA
995 MB | | | | | | | | | | | | COLUMBIA, MD.
985 MB | | | | | | | | | | | | DEL RIO, TEXAS
977 MB | | | | | | | | | | | |
|-----------------------------------|----|-------|-------|-------|----|-----|----|-------|-------|-------|----|-----------------------------------|-----|-------|-------|-------|-----|------|-------|-------|-------|-------|------|-----------------------------------|-------|-------|-----|-----|------|-----|----|-----|----|-----|-----|-----------------------------------|------|-----|----|-----|----|-----|-----|-----|------|-----|----|-----------------------------------|--|--|--|--|--|--|--|--|--|--|--|
| Standard pressure
surface (mb) | | | | | | | | | | | | Standard pressure
surface (mb) | | | | | | | | | | | | Standard pressure
surface (mb) | | | | | | | | | | | | Standard pressure
surface (mb) | | | | | | | | | | | | Standard pressure
surface (mb) | | | | | | | | | | | |
| No of observations | | | | | | | | | | | | No of observations | | | | | | | | | | | | No of observations | | | | | | | | | | | | No of observations | | | | | | | | | | | | No of observations | | | | | | | | | | | |
| Dynamic height | | | | | | | | | | | | Dynamic height | | | | | | | | | | | | Dynamic height | | | | | | | | | | | | Dynamic height | | | | | | | | | | | | Dynamic height | | | | | | | | | | | |
| Temperature | | | | | | | | | | | | Temperature | | | | | | | | | | | | Temperature | | | | | | | | | | | | Temperature | | | | | | | | | | | | Temperature | | | | | | | | | | | |
| Dew Point | | | | | | | | | | | | Dew Point | | | | | | | | | | | | Dew Point | | | | | | | | | | | | Dew Point | | | | | | | | | | | | Dew Point | | | | | | | | | | | |
| Direction | | | | | | | | | | | | Direction | | | | | | | | | | | | Direction | | | | | | | | | | | | Direction | | | | | | | | | | | | Direction | | | | | | | | | | | |
| Speed | | | | | | | | | | | | Speed | | | | | | | | | | | | Speed | | | | | | | | | | | | Speed | | | | | | | | | | | | Speed | | | | | | | | | | | |
| Resultant Wind | | | | | | | | | | | | Resultant Wind | | | | | | | | | | | | Resultant Wind | | | | | | | | | | | | Resultant Wind | | | | | | | | | | | | Resultant Wind | | | | | | | | | | | |
| Miles | | | | | | | | | | | | Miles | | | | | | | | | | | | Miles | | | | | | | | | | | | Miles | | | | | | | | | | | | Miles | | | | | | | | | | | |
| SURFACE | 31 | 13 | 10.4 | 7.8 | 24 | 9 | 31 | 1428 | 8.0 | -3.1 | 23 | 2.0 | 31 | 30 | -7 | -3.5 | 13 | 1.7 | 31 | 238 | 1.2 | -2.6 | 03 | 1.6 | 31 | 314 | 314 | 120 | 10.3 | 5.1 | 13 | 2.3 | 31 | 314 | 314 | 120 | 10.3 | 5.1 | 13 | 2.3 | 31 | 314 | 314 | 120 | 10.3 | 5.1 | 13 | 2.3 | | | | | | | | | | | |
| 1000 | 31 | 129 | 12.4 | 8.4 | 23 | 2 | 31 | 170 | | | | 31 | 12 | -12 | | | | 2.7 | 31 | 137 | | | | 31 | 120 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 950 | 31 | 159 | 11.4 | 6.0 | 24 | 5 | 31 | 529 | | | | 31 | 998 | -2.1 | -5.0 | 13 | 2.7 | 31 | 550 | -4.9 | -4.9 | 34 | 1.1 | 31 | 147 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 900 | 31 | 1010 | 9.1 | 2.7 | 24 | 7 | 31 | 937 | | | | 31 | 825 | -6.3 | -7.5 | 14 | 4.3 | 31 | 982 | -1.6 | -7.1 | 31 | 2.8 | 31 | 998 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 850 | 31 | 1482 | 6.7 | -1.6 | 25 | 9 | 31 | 1464 | | | | 1.1 | 31 | 1274 | -6.7 | -10.8 | 15 | 5.2 | 31 | 1438 | -1.7 | -8.5 | 31 | 5.1 | 31 | 1471 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 800 | 31 | 1979 | 4.5 | -6.9 | 25 | 11 | 31 | 1906 | 7.9 | -5.6 | 25 | 4.6 | 31 | 1745 | -9.3 | -15.0 | 16 | 5.8 | 31 | 1919 | -3.5 | -11.9 | 31 | 5.9 | 31 | 1970 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 750 | 31 | 2502 | 1.9 | -9.6 | 26 | 12 | 31 | 2491 | 4.7 | | | 6.2 | 31 | 2240 | -11.8 | -20.0 | 18 | 5.7 | 31 | 2427 | -5.7 | -14.6 | 30 | 7.3 | 31 | 2497 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 700 | 31 | 3056 | -1.0 | -13.3 | 26 | 14 | 31 | 3054 | 1.7 | -12.6 | 26 | 10.7 | 31 | 2768 | -14.4 | -22.8 | 19 | 6.0 | 31 | 2966 | -8.2 | -17.7 | 29 | 9.2 | 31 | 3058 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 650 | 31 | 3640 | -4.3 | -16.7 | 26 | 15 | 31 | 3643 | -1.2 | -17.1 | 27 | 12.1 | 31 | 3393 | -17.4 | -25.9 | 19 | 7.6 | 31 | 3536 | -11.0 | -21.3 | 29 | 11.8 | 31 | 3646 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 600 | 31 | 4271 | -8.2 | -19.1 | 27 | 18 | 31 | 4282 | -5.2 | -21.0 | 27 | 13.7 | 31 | 3922 | -13.3 | -28.9 | 19 | 8.7 | 31 | 4150 | -14.3 | -25.4 | 28 | 14.6 | 31 | 4281 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 550 | 31 | 4936 | -12.1 | -25.1 | 27 | 20 | 31 | 4951 | -9.8 | -25.3 | 27 | 16.0 | 31 | 4554 | -25.3 | -32.7 | 19 | 9.8 | 31 | 4804 | -18.5 | -29.4 | 27 | 16.3 | 31 | 4949 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 500 | 31 | 5605 | -16.9 | -29.4 | 27 | 23 | 31 | 5689 | -15.0 | -29.3 | 27 | 18.1 | 31 | 5245 | -29.7 | -37.8 | 20 | 11.3 | 31 | 5509 | -23.5 | -34.1 | 27 | 17.7 | 31 | 5680 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 450 | 31 | 6240 | -22.3 | -35.1 | 27 | 25 | 31 | 6270 | -20.6 | -33.1 | 27 | 20.4 | 31 | 5985 | -35.0 | -42.2 | 19 | 12.2 | 31 | 6270 | -28.8 | -39.1 | 27 | 20.0 | 31 | 6258 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 400 | 31 | 6904 | -28.3 | -40.3 | 27 | 30 | 31 | 7340 | -26.7 | -38.0 | 27 | 21.5 | 31 | 6730 | -40.9 | -44.1 | 19 | 13.7 | 31 | 7105 | -35.0 | -43.8 | 27 | 22.9 | 31 | 7321 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 350 | 31 | 7528 | -35.2 | -45.8 | 27 | 33 | 31 | 7838 | -34.2 | -44.0 | 27 | 27.2 | 31 | 7273 | -47.0 | -51.3 | 19 | 12.1 | 31 | 8023 | -46.9 | -49.1 | 26 | 26.7 | 31 | 8205 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 300 | 31 | 8106 | -42.8 | -45.7 | 26 | 38 | 31 | 8349 | -42.0 | -45.6 | 27 | 32.9 | 30 | 8700 | -52.1 | | 19 | 14.8 | 31 | 9050 | -49.1 | | 26 | 30.5 | 31 | 9321 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 250 | 31 | 8654 | -50.9 | | | 42 | 31 | 8959 | -50.1 | | 27 | 35.8 | 30 | 9676 | -53.2 | | 20 | 17.0 | 31 | 10227 | -55.9 | | 26 | 34.0 | 31 | 10529 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 200 | 31 | 9142 | -57.3 | | | 47 | 31 | 9495 | -56.4 | | 27 | 41.6 | 30 | 11131 | -51.4 | | 21 | 12.1 | 31 | 11636 | -57.7 | | 26 | 33.0 | 31 | 11961 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 175 | 31 | 12783 | -58.5 | | | 50 | 31 | 12838 | -58.2 | | 27 | 39.1 | 30 | 12188 | -50.5 | | 21 | 11.8 | 31 | 12462 | -57.3 | | 26 | 31.3 | 31 | 12805 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 150 | 31 | 13749 | -60.2 | | | 53 | 31 | 13804 | -60.1 | | 27 | 36.9 | 30 | 13396 | -50.1 | | 21 | 11.5 | 31 | 13749 | -57.3 | | 26 | 29.0 | 31 | 13771 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 125 | 31 | 14882 | -61.9 | | | 57 | 31 | 14933 | -63.3 | | 30 | 34.1 | 30 | 14386 | -49.7 | | 21 | 10.6 | 31 | 14618 | -56.9 | | 27 | 25.7 | 31 | 14900 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 100 | 31 | 16258 | -63.3 | | | 60 | 31 | 16291 | -67.1 | | 30 | 30.1 | 30 | 15844 | -50.2 | | 21 | 8.5 | 31 | 16029 | -57.2 | | 27 | 21.8 | 30 | 16260 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 75 | 31 | 17625 | -64.4 | | | 70 | 31 | 17631 | -68.0 | | 30 | 22.8 | 29 | 17298 | -50.4 | | 21 | 8.0 | 31 | 17431 | -58.8 | | 26 | 17.3 | 31 | 17606 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 50 | 31 | 18444 | -62.7 | | | 77 | 31 | 18432 | -67.5 | | 30 | 19.1 | 27 | 18432 | -67.5 | | 21 | 6.9 | 30 | 18270 | -58.8 | | 26 | 14.9 | 30 | 18410 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 25 | 31 | 19389 | -60.4 | | | 83 | 31 | 19389 | -60.4 | | 30 | 4.9 | 30 | 19389 | -60.4 | | 21 | 3.9 | 30 | 19389 | -60.4 | | 27 | 13.4 | 30 | 19389 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 31 | 20537 | -58.7 | | | 90 | 31 | 20537 | -58.7 | | 30 | 12.1 | 26 | 20495 | -60.1 | | 20 | 4.5 | 29 | 20089 | -57.7 | | 27 | 11.8 | 29 | 20445 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | 31 | 21946 | -56.1 | | | 97 | 31 | 21946 | -56.1 | | 30 | 7.7 | 25 | 21899 | -56.9 | | 19 | 3.8 | 29 | 21801 | -56.3 | | 27 | 10.4 | 29 | 21804 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | 31 | 23790 | -52.4 | | | 104 | 31 | 23790 | -52.4 | | 30 | 5.6 | 25 | 23741 | -52.1 | | 19 | 1.0 | 29 | 23634 | -54.7 | | 27 | 12.5 | 29 | 23699 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | 31 | 24975 | -49.8 | | | 111 | 31 | 24975 | -49.8 | | 30 | 6.0 | 24 | 24926 | -50.2 | | 20 | 1.6 | 29 | 24810 | -53.3 | | 27 | 15.7 | 29 | 24877 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 31 | 26444 | -46.2 | | | 118 | 31 | 26444 | -46.2 | | 30 | 7.4 | 23 | 26395 | -47.6 | | 20 | 4.4 | 28 | 26245 | -50.4 | | 27 | 19.3 | 28 | 26337 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | 31 | 28335 | -43.8 | | | 125 | 31 | 28335 | -43.8 | | 30 | 9.8 | 23 | 28286 | -44.9 | | 20 | 6.0 | 28 | 28136 | -46.8 | | 27 | 28.8 | 28 | 28320 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | 31 | 31117 | -39.1 | | | 132 | 31 | 31117 | -39.1 | | 30 | 8 | 23 | 31054 | -40.9 | | 20 | 9 | 30790 | -43.1 | | 27 | 19.8 | 28 | 30930 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | 31 | | | | | 139 | 31 | | | | 30 | | | | | | 20 | 13.4 | | | | | 27 | 25.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 31 | | | | | 146 | 31 | | | | 30 | | | | | | 20 | 15.6 | | | | | 27 | 28.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | 31 | | | | | 153 | 31 | | | | 30 | | | | | | 20 | 13.4 | | | | | 27 | 25.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | 31 | | | | | 160 | 31 | | | | 30 | | | | | | 20 | 15.6 | | | | | 27 | 28.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | 31 | | | | | 167 | 31 | | | | 30 | | | | | | 20 | 13.4 | | | | | 27 | 25.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 31 | | | | | 174 | 31 | | | | 30 | | | | | | 20 | 15.6 | | | | | 27 | 28.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | 31 | | | | | 181 | 31 | | | | 30 | | | | | | 20 | 13.4 | | | | | 27 | 25.3 | | | | | | | | | | | | | | | | | | | | | </ | | | | | | | | | | | | | | |

Average monthly values

MARCH 1970

See reference 12 at end of table

Average monthly values

[illegible]

| MERICA, MEXICO
1011 MB | | | | | | | | | | MIAMI, FLA.
1016 MB | | | | | | | | | | MONTREY, MEXICO
960 MB | | | | | | | | | | MONTGOMERY, FLA.
1209 MB | | | | | | | | | | * NANTUCKET, MASS.
1013 MB | | | | | | | | | |
|---------------------------|----|------|-------|-------|------|------|----|------|-------|------------------------|----|------|----|------|-------|-------|-----|------|------|---------------------------|-------|-------|-----|------|-----|------|-------|-------|-----|-----------------------------|--|--|--|--|--|--|--|--|--|-------------------------------|--|--|--|--|--|--|--|--|--|
| SURFACE | 31 | 11 | 20.0 | 18.4 | 10 | 1.1 | 31 | 4 | 19.9 | 15.9 | 13 | 1.5 | 30 | 423 | 11.9 | 9.5 | 36 | 1.6 | 31 | 57 | 8.8 | 5.8 | 27 | 9 | 31 | 13 | 1.0 | -2.3 | 29 | 7.0 | | | | | | | | | | | | | | | | | | | |
| 1000 | 31 | 108 | 208 | 180.0 | 10 | 3.0 | 31 | 140 | 193 | 15.3 | 11 | 2.3 | 30 | 91 | | | | 31 | 132 | 9.7 | 5.9 | 27 | 9 | 31 | 125 | -0.5 | -4.4 | 29 | 2.9 | | | | | | | | | | | | | | | | | | | | |
| 950 | 31 | 95 | 195 | 175 | 7 | 3 | 31 | 58 | 125 | 13.1 | 2 | 2 | 30 | 125 | 9.1 | 36 | 1.6 | 31 | 100 | 9.4 | 5 | 27 | 9 | 31 | 100 | -0.5 | -7.2 | 29 | 3.0 | | | | | | | | | | | | | | | | | | | | |
| 900 | 31 | 1018 | 18.3 | 10.2 | 14 | 4.9 | 31 | 1004 | 14.2 | 9.1 | 2 | 3 | 30 | 967 | 12.8 | 0-3 | 35 | 31 | 1009 | 8.7 | -5 | 25 | 5.7 | 31 | 959 | -2.1 | -8.7 | 27 | 8.4 | | | | | | | | | | | | | | | | | | | | |
| 850 | 31 | 1507 | 16.2 | 5.7 | 18 | 3.0 | 31 | 1522 | 11.8 | 4.3 | 23 | 4.4 | 30 | 1447 | 11.8 | 2.7 | 23 | 2.5 | 31 | 1481 | 6.8 | -3 | 25 | 7.8 | 31 | 1413 | -3.5 | -10.9 | 27 | 8.4 | | | | | | | | | | | | | | | | | | | |
| 800 | 31 | 2021 | 14.3 | | 1.22 | 4.1 | 31 | 2028 | 9.9 | -8 | 24 | 6.0 | 30 | 1934 | 11.4 | -2.4 | 24 | 6.1 | 30 | 1977 | 4.8 | -8.1 | 25 | 9.7 | 31 | 1891 | -5.1 | -13.6 | 27 | 17.9 | | | | | | | | | | | | | | | | | | | |
| 750 | 31 | 2562 | 11.7 | | 1.23 | 4.9 | 31 | 2504 | 8.2 | -7.2 | 25 | 7.4 | 30 | 2448 | 8.7 | -7.6 | 25 | 9.7 | 30 | 2500 | 2.1 | -10.2 | 26 | 11.8 | 31 | 2376 | -7.1 | -16.6 | 27 | 13.5 | | | | | | | | | | | | | | | | | | | |
| 700 | 31 | 3138 | 9.6 | -55.1 | 24 | 5.3 | 31 | 3131 | 5.8 | -11.7 | 26 | 9 | 30 | 3045 | 5.8 | -12.1 | 24 | 11.4 | 30 | 3056 | -6 | -13.5 | 26 | 11.8 | 31 | 2932 | -6.0 | -19.8 | 27 | 16.8 | | | | | | | | | | | | | | | | | | | |
| 650 | 31 | 3750 | 6.6 | -18.1 | 26 | 5.5 | 31 | 3733 | 3.0 | -15.0 | 27 | 10 | 30 | 3457 | | -15.2 | 25 | 12.8 | 30 | 3429 | -3 | -16.6 | 26 | 16.0 | 31 | 3449 | -11.9 | -23.0 | 27 | 16.8 | | | | | | | | | | | | | | | | | | | |
| 600 | 31 | 4402 | 2.1 | -18.3 | 27 | 8.4 | 31 | 4380 | -7 | -17.4 | 27 | 14.1 | 30 | 4300 | -27 | -19.3 | 25 | 14.7 | 29 | 4271 | -7.9 | -20.8 | 26 | 18.1 | 31 | 4112 | -15.5 | -27.1 | 27 | 19.3 | | | | | | | | | | | | | | | | | | | |
| 550 | 31 | 5094 | -2.5 | -21.9 | 27 | 10.0 | 31 | 5055 | -5.3 | -21.2 | 27 | 17.3 | 30 | 4980 | -7.5 | -23.2 | 25 | 18.3 | 28 | 4938 | -12.3 | -26.7 | 26 | 19.9 | 31 | 4757 | -19.7 | -31.5 | 27 | 20.8 | | | | | | | | | | | | | | | | | | | |
| 500 | 31 | 5848 | -7.5 | -25.6 | 26 | 13.3 | 31 | 5811 | -10.2 | -25.3 | 27 | 20.6 | 30 | 5720 | -12.3 | -28.9 | 26 | 21.1 | 28 | 5684 | -17.1 | -30.6 | 26 | 22.6 | 31 | 5464 | -24.5 | -35.0 | 27 | 22.7 | | | | | | | | | | | | | | | | | | | |
| 450 | 31 | 6589 | -12.9 | -29.2 | 25 | 16.5 | 31 | 6612 | -15.6 | -30.0 | 27 | 24.2 | 30 | 6515 | -17.9 | -32.3 | 26 | 24.4 | 28 | 6442 | -22.5 | -35.7 | 26 | 25.4 | 31 | 6215 | -29.7 | -40.6 | 27 | 25.7 | | | | | | | | | | | | | | | | | | | |
| 400 | 31 | 7355 | -18.5 | | 18.5 | 17 | 31 | 7454 | -22.7 | -30.7 | 27 | 27.3 | 30 | 7333 | -23.3 | -36.6 | 26 | 28.7 | 28 | 7301 | -32 | -41.1 | 27 | 26 | 31 | 7049 | -40.0 | -51.7 | 27 | 27.8 | | | | | | | | | | | | | | | | | | | |
| 350 | 31 | 8529 | -28.5 | -41.2 | 26 | 23.7 | 31 | 8463 | -27.7 | -39.9 | 27 | 31.1 | 30 | 8348 | -31.2 | -42.4 | 26 | 33.1 | 28 | 8244 | -35.8 | -47.3 | 26 | 31.8 | 31 | 7966 | -41.9 | -57.4 | 27 | 30.7 | | | | | | | | | | | | | | | | | | | |
| 300 | 31 | 9623 | -35.1 | -48.4 | 26 | 22.9 | 31 | 9549 | -37.1 | -46.6 | 27 | 36.1 | 30 | 9423 | -39.4 | -47.2 | 26 | 41.0 | 28 | 9297 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| NOME, ALASKA | | | | CHAMA, NEBR. | | | | PAGE PAGU AMERICAN SAMOA | | | | PEROTA, ILL. | | | | PUNAPE, CAROLINE IS. | | | | | | | | | | | | | | |
|--------------|----|-------|--------|--------------|----|------|----|--------------------------|-------|-------|----|--------------|----|-------|-------|----------------------|-----|-----|----|-------|-------|-------|----|------|----|--------|-------|-------|------|-----|
| 1007 MB | | | | 968 MB | | | | 1009 MB | | | | 993 MB | | | | 1005 MB | | | | | | | | | | | | | | |
| SURFACE | 31 | 5 | -11.07 | -16.5 | 03 | 3.9 | 31 | 403 | -2.7 | -5.7 | 35 | 1.0 | 31 | 5 | 28.8 | 24.8 | 0.6 | 2.2 | 31 | 200 | -1.5 | -4.6 | 02 | 1.6 | 31 | 39 | 28.7 | 23.3 | 07 | 4.1 |
| 1950 | 31 | 60 | | | 03 | 3.8 | 31 | 546 | | | | 31 | 31 | 45 | 27.7 | 23.1 | 0.4 | 2.6 | 31 | 141 | | | | 31 | 85 | 27.8 | 21.9 | 07 | 5.2 | |
| 1000 | 31 | 456 | -10.1 | -15.9 | 06 | 3.8 | 31 | 556 | -1.9 | -5.6 | 33 | 1.3 | 31 | 542 | 23.8 | 19.1 | 0.4 | 3.9 | 31 | 980 | -1.4 | -5.1 | 03 | 2.5 | 31 | 520.3 | 17.4 | 0.8 | 10.0 | |
| 870 | 31 | 980 | -14.9 | -18.5 | 09 | 4.1 | 31 | 980 | -1.9 | -6.9 | 35 | 1.5 | 31 | 547 | 15.1 | 11.1 | 0.4 | 3.9 | 31 | 980 | -1.4 | -5.1 | 03 | 2.5 | 31 | 1000.7 | 12.8 | 0.8 | 10.0 | |
| 850 | 31 | 1.31 | -11.9 | -18.3 | 09 | 3.3 | 31 | 1.439 | -3.1 | -10.9 | 30 | 4.7 | 31 | 1.504 | 18.1 | 11.4 | 0.4 | 3.7 | 31 | 1.433 | -4.1 | -11.7 | 32 | 3.3 | 31 | 1.499 | 17.4 | 7.5 | 0.8 | |
| 800 | 31 | 1.773 | -13.9 | -20.7 | 08 | 2.9 | 31 | 1.917 | -5.1 | -12.7 | 30 | 5.1 | 31 | 2.022 | 15.4 | 8.5 | 0.4 | 2.9 | 31 | 1.910 | -5.6 | -14.1 | 32 | 5.6 | 31 | 2.015 | 15.5 | 1.5 | 0.8 | |
| 750 | 31 | 2.258 | -15.9 | -23.1 | 09 | 2.2 | 31 | 2.418 | -7.3 | -16.3 | 30 | 6.4 | 31 | 2.506 | 17.5 | 4.6 | 0.3 | 2.6 | 31 | 2.413 | -7.4 | -14.7 | 30 | 7.7 | 31 | 2.502 | 13.9 | -3.8 | 1.7 | |
| 700 | 31 | 2.780 | -18.3 | -26.6 | 12 | 1.8 | 31 | 2.958 | -10.0 | -19.9 | 30 | 6.2 | 31 | 3.145 | 9.5 | 2.3 | 0.4 | 2.3 | 31 | 2.951 | -9.9 | -16.6 | 29 | 10.1 | 31 | 3.141 | 11.1 | -7.9 | 6.2 | |
| 650 | 31 | 3.328 | -21.0 | -29.3 | 14 | 2.3 | 31 | 3.521 | -12.8 | -22.9 | 27 | 9.7 | 31 | 3.759 | 9.8 | -0.8 | 0.3 | 2.0 | 31 | 3.521 | -12.8 | -19.5 | 5 | 10.1 | 31 | 3.757 | 7.9 | -11.4 | 9 | |
| 600 | 31 | 3.918 | -24.3 | -33.1 | 13 | 2.3 | 31 | 4.122 | -15.4 | -25.7 | 29 | 11.7 | 31 | 4.342 | 3.3 | -8.6 | 0.4 | 1.3 | 31 | 4.122 | -15.9 | -23.3 | 28 | 13.8 | 31 | 4.412 | 4.5 | -15.5 | 9 | |
| 550 | 31 | 4.542 | -28.5 | -37.5 | 17 | 4.6 | 31 | 4.778 | -20.4 | -30.0 | 28 | 14.0 | 31 | 5.108 | -4.4 | -13.2 | 0.2 | 0.9 | 31 | 4.775 | -19.9 | -28.3 | 28 | 16.3 | 31 | 5.112 | 6 | -19.9 | 9 | |
| 500 | 31 | 5.224 | -33.0 | -42.8 | 18 | 5.8 | 31 | 5.483 | -25.1 | -35.3 | 24 | 16.0 | 31 | 5.870 | -4.6 | -17.6 | 0.4 | 2.3 | 31 | 5.480 | -24.8 | -32.7 | 27 | 18.2 | 31 | 5.976 | 6 | -23.8 | 9 | |
| 450 | 31 | 5.955 | -38.0 | -44.8 | 19 | 7.5 | 31 | 6.234 | -30.5 | -40.6 | 27 | 17.0 | 31 | 6.687 | -9.3 | -23.7 | 0.5 | 3.0 | 31 | 6.233 | -30.1 | -37.8 | 27 | 20.4 | 31 | 6.700 | -8.2 | -28.1 | 9 | |
| 400 | 31 | 6.760 | -43.8 | -50.0 | 19 | 9.8 | 31 | 7.009 | -36.7 | -45.6 | 27 | 18.6 | 31 | 7.536 | -15.2 | -28.9 | 0.4 | 4.2 | 31 | 7.057 | -36.1 | -44.4 | 27 | 23.8 | 31 | 7.600 | -10.4 | -37.8 | 11.9 | |
| 350 | 31 | 7.646 | -48.6 | -55.0 | 20 | 12.1 | 31 | 8.131 | -40.0 | -51.0 | 27 | 22.1 | 31 | 8.592 | -24.7 | -36.1 | 0.4 | 6.0 | 31 | 7.981 | -42.9 | -50.9 | 27 | 26.5 | 31 | 8.610 | -20.4 | -38.4 | 9 | |
| 300 | 31 | 8.643 | -54.2 | | 22 | 10.6 | 31 | 9.000 | -51.0 | | 27 | 25.0 | 31 | 9.710 | -29.9 | -44.0 | 0.6 | 6.9 | 31 | 9.005 | -50.0 | | | | | | | | | |

RAWINSONDE DATA

Average monthly values

MARCH 1970

| SULLY LAKE, WASH.
10.3 MB | | | | | | | | | | RAPID CITY, S. DAK.
994 MB | | | | | | | | | | ST. CLOUD, MINN.
981 MB | | | | | | | | | | ST. PAUL IS., ALASKA
999 MB | | | | | | | | | | SALEM, OREG.
1014 MB | | | | | | | | | |
|--------------------------------|---------------------|----------------|-------------|-----------|-----------|--------------|---------------------|----------------|-------------|-------------------------------|-----------|--------------|---------------------|----------------|-------------|-----------|-----------|--------------|---------------------|----------------------------|-------------|-----------|-----------|--------------|---------------------|----------------|-------------|-----------|-----------|--------------------------------|---------------------|----------------|-------------|-----------|-----------|--------------|--|--|--|-------------------------|--|--|--|--|--|--|--|--|--|
| Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | |
| No. of observations | | | | | | | | | | No. of observations | | | | | | | | | | No. of observations | | | | | | | | | | No. of observations | | | | | | | | | | No. of observations | | | | | | | | | |
| Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | |
| Temperature | | | | | | | | | | Temperature | | | | | | | | | | Temperature | | | | | | | | | | Temperature | | | | | | | | | | Temperature | | | | | | | | | |
| Dew Point | | | | | | | | | | Dew Point | | | | | | | | | | Dew Point | | | | | | | | | | Dew Point | | | | | | | | | | Dew Point | | | | | | | | | |
| Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | |
| Speed M.p.s. | | | | | | | | | | Speed M.p.s. | | | | | | | | | | Speed M.p.s. | | | | | | | | | | Speed M.p.s. | | | | | | | | | | Speed M.p.s. | | | | | | | | | |
| Standard pressure surface (mb) | No. of observations | Dynamic height | Temperature | Dew Point | Direction | Speed M.p.s. | No. of observations | Dynamic height | Temperature | Dew Point | Direction | Speed M.p.s. | No. of observations | Dynamic height | Temperature | Dew Point | Direction | Speed M.p.s. | No. of observations | Dynamic height | Temperature | Dew Point | Direction | Speed M.p.s. | No. of observations | Dynamic height | Temperature | Dew Point | Direction | Speed M.p.s. | No. of observations | Dynamic height | Temperature | Dew Point | Direction | Speed M.p.s. | | | | | | | | | | | | | |
| SURFACE | 29 | 98 | 2.8 | 1.0 | 34 | 9.31 | 966 | -5.5 | -8.7 | 34 | 1.9 | 31 | 316 | -9.3 | -13.5 | 34 | 7 | 31 | 10 | -4.0 | 04 | 5.0 | 31 | 61 | 4.1 | 1.5 | 21 | 1.0 | | | | | | | | | | | | | | | | | | | | | |
| 1000 | 31 | 155 | 4.7 | 2.1 | 34 | 8.31 | 163 | | | | | 31 | 164 | -7.2 | -13.1 | 01 | 2.2 | 31 | 4.0 | -6.0 | 04 | 3.7 | 31 | 171 | 5.8 | -1.7 | 23 | 1.8 | | | | | | | | | | | | | | | | | | | | | |
| 950 | 31 | 140 | 4.0 | 1.2 | 34 | 7.31 | 156 | | | | | 31 | 152 | -7.8 | -14.1 | 35 | 1.8 | 31 | 8.25 | -7.4 | -9.4 | 08 | 4.5 | 31 | 1.029 | 1.9 | -3.2 | 27 | 2.3 | | | | | | | | | | | | | | | | | | | | |
| 900 | 31 | 124 | 3.8 | 1.0 | 34 | 6.31 | 148 | | | | | 31 | 142 | -8.6 | -16.1 | 31 | 3.3 | 31 | 1.269 | -9.1 | -13.4 | 09 | 4.2 | 31 | 1.458 | -4.4 | -7.2 | 26 | 3.3 | | | | | | | | | | | | | | | | | | | | |
| 850 | 31 | 108 | 3.3 | 1.3 | 34 | 5.31 | 138 | | | | | 31 | 136 | -9.7 | -18.0 | 30 | 5.3 | 31 | 1.737 | -11.0 | -16.8 | 11 | 3.1 | 31 | 1.971 | -2.8 | -11.4 | 24 | 4.5 | | | | | | | | | | | | | | | | | | | | |
| 800 | 31 | 92 | 2.8 | 1.5 | 34 | 4.31 | 128 | | | | | 31 | 124 | -12.1 | -20.5 | 30 | 6.3 | 31 | 2.232 | -13.7 | -20.5 | 13 | 2.5 | 31 | 2.431 | -5.1 | -14.8 | 30 | 6.2 | | | | | | | | | | | | | | | | | | | | |
| 750 | 31 | 76 | 2.3 | 1.8 | 34 | 3.31 | 118 | | | | | 31 | 112 | -14.6 | -24.1 | 30 | 7.3 | 31 | 2.752 | -16.0 | -23.5 | 15 | 2.8 | 31 | 3.021 | -7.4 | -18.0 | 30 | 8.3 | | | | | | | | | | | | | | | | | | | | |
| 700 | 31 | 60 | 1.8 | 2.3 | 34 | 2.31 | 108 | | | | | 31 | 96 | -17.1 | -27.4 | 29 | 8.3 | 31 | 3.305 | -20.1 | -26.9 | 16 | 3.0 | 31 | 3.594 | -10.4 | -21.1 | 30 | 9.8 | | | | | | | | | | | | | | | | | | | | |
| 650 | 31 | 44 | 1.3 | 2.8 | 34 | 1.31 | 98 | | | | | 31 | 80 | -19.6 | -30.8 | 29 | 9.3 | 31 | 3.895 | -23.9 | -30.4 | 17 | 3.4 | 31 | 4.208 | -14.2 | -24.7 | 31 | 11.3 | | | | | | | | | | | | | | | | | | | | |
| 600 | 31 | 28 | 0.8 | 3.3 | 34 | 0.31 | 88 | | | | | 31 | 64 | -22.4 | -33.6 | 29 | 10.3 | 31 | 4.522 | -27.8 | -35.1 | 17 | 4.5 | 31 | 4.857 | -18.2 | -28.5 | 31 | 12.8 | | | | | | | | | | | | | | | | | | | | |
| 550 | 31 | 12 | 0.3 | 3.8 | 34 | -0.31 | 78 | | | | | 31 | 48 | -25.2 | -37.5 | 29 | 11.3 | 31 | 5.204 | -32.5 | -39.6 | 17 | 5.0 | 31 | 5.569 | -22.7 | -33.9 | 31 | 14.2 | | | | | | | | | | | | | | | | | | | | |
| 500 | 31 | -4 | -0.2 | 4.3 | 34 | -1.31 | 68 | | | | | 31 | 32 | -28.0 | -41.7 | 29 | 12.3 | 31 | 5.941 | -37.4 | -44.6 | 19 | 6.1 | 31 | 6.328 | -28.1 | -37.1 | 31 | 16.5 | | | | | | | | | | | | | | | | | | | | |
| 450 | 31 | -12 | -0.7 | 4.8 | 34 | -2.31 | 58 | | | | | 31 | 16 | -30.8 | -45.6 | 29 | 13.3 | 31 | 6.744 | -42.5 | -49.6 | 19 | 6.9 | 31 | 7.159 | -34.2 | -44.1 | 31 | 18.2 | | | | | | | | | | | | | | | | | | | | |
| 400 | 31 | -20 | -1.2 | 5.3 | 34 | -3.31 | 48 | | | | | 31 | -8 | -33.6 | -49.6 | 29 | 14.3 | 31 | 7.634 | -47.6 | -54.7 | 19 | 7.8 | 31 | 8.091 | -41.0 | -46.9 | 31 | 18.3 | | | | | | | | | | | | | | | | | | | | |
| 350 | 31 | -28 | -1.7 | 5.8 | 34 | -4.31 | 38 | | | | | 31 | -16 | -36.4 | -53.6 | 29 | 15.3 | 31 | 8.638 | -52.9 | -59.9 | 19 | 8.7 | 31 | 9.121 | -48.6 | -54.5 | 31 | 18.7 | | | | | | | | | | | | | | | | | | | | |
| 300 | 31 | -36 | -2.2 | 6.3 | 34 | -5.31 | 28 | | | | | 31 | -24 | -39.2 | -57.6 | 29 | 16.3 | 31 | 9.809 | -58.2 | -65.2 | 19 | 9.6 | 31 | 10.298 | -56.6 | -62.5 | 31 | 21.5 | | | | | | | | | | | | | | | | | | | | |
| 250 | 31 | -44 | -2.7 | 6.8 | 34 | -6.31 | 18 | | | | | 31 | -32 | -42.0 | -61.6 | 29 | 17.3 | 31 | 11.259 | -63.5 | -70.5 | 19 | 10.5 | 31 | 11.693 | -61.1 | -67.0 | 31 | 21.8 | | | | | | | | | | | | | | | | | | | | |
| 200 | 31 | -52 | -3.2 | 7.3 | 34 | -7.31 | 8 | | | | | 31 | -40 | -44.8 | -65.6 | 29 | 18.3 | 31 | 12.133 | -68.2 | -75.2 | 19 | 11.4 | 31 | 12.537 | -65.0 | -70.9 | 31 | 24.0 | | | | | | | | | | | | | | | | | | | | |
| 150 | 31 | -60 | -3.7 | 7.8 | 34 | -8.31 | -2 | | | | | 31 | -48 | -47.6 | -69.6 | 29 | 19.3 | 31 | 13.144 | -72.9 | -79.9 | 19 | 12.3 | 31 | 13.490 | -68.3 | -74.2 | 31 | 27.1 | | | | | | | | | | | | | | | | | | | | |
| 100 | 31 | -68 | -4.2 | 8.3 | 34 | -9.31 | -10 | | | | | 31 | -56 | -50.4 | -73.6 | 29 | 20.3 | 31 | 14.341 | -77.6 | -84.6 | 19 | 13.2 | 31 | 14.637 | -71.6 | -77.5 | 31 | 30.2 | | | | | | | | | | | | | | | | | | | | |
| 50 | 31 | -76 | -4.7 | 8.8 | 34 | -10.31 | -18 | | | | | 31 | -64 | -53.2 | -77.6 | 29 | 21.3 | 31 | 15.807 | -82.3 | -89.3 | 19 | 14.1 | 31 | 16.038 | -75.9 | -81.8 | 31 | 32.6 | | | | | | | | | | | | | | | | | | | | |
| 0 | 31 | -84 | -5.2 | 9.3 | 34 | -11.31 | -26 | | | | | 31 | -72 | -56.0 | -81.6 | 29 | 22.3 | 31 | 17.273 | -87.0 | -94.0 | 19 | 15.0 | 31 | 17.436 | -80.6 | -86.5 | 31 | 34.9 | | | | | | | | | | | | | | | | | | | | |
| | 31 | -92 | -5.7 | 9.8 | 34 | -12.31 | -34 | | | | | 31 | -80 | -58.8 | -85.6 | 29 | 23.3 | 31 | 18.149 | -91.7 | -98.7 | 19 | 15.9 | 31 | 18.272 | -84.2 | -90.1 | 31 | 37.9 | | | | | | | | | | | | | | | | | | | | |
| | 31 | -100 | -6.2 | 10.3 | 34 | -13.31 | -42 | | | | | 31 | -88 | -61.6 | -89.6 | 29 | 24.3 | 31 | 19.205 | -96.4 | -103.4 | 19 | 16.8 | 31 | 19.484 | -87.7 | -93.6 | 31 | 40.7 | | | | | | | | | | | | | | | | | | | | |
| | 31 | -108 | -6.7 | 10.8 | 34 | -14.31 | -50 | | | | | 31 | -96 | -64.8 | -93.6 | 29 | 25.3 | 31 | 20.358 | -101.1 | -108.1 | 19 | 17.7 | 31 | 20.799 | -90.9 | -96.8 | 31 | 43.6 | | | | | | | | | | | | | | | | | | | | |
| | 31 | -116 | -7.2 | 11.3 | 34 | -15.31 | -58 | | | | | 31 | -104 | -68.0 | -97.6 | 29 | 26.3 | 31 | 21.822 | -105.8 | -112.8 | 19 | 18.6 | 31 | 22.177 | -94.0 | -100.0 | 31 | 46.5 | | | | | | | | | | | | | | | | | | | | |
| | 31 | -124 | -7.7 | 11.8 | 34 | -16.31 | -66 | | | | | 31 | -112 | -71.2 | -101.6 | 29 | 27.3 | 31 | 23.709 | -110.5 | -117.5 | 19 | 19.5 | 31 | 23.579 | -97.1 | -103.1 | 31 | 49.4 | | | | | | | | | | | | | | | | | | | | |
| | 31 | -132 | -8.2 | 12.3 | 34 | -17.31 | -74 | | | | | 31 | -120 | -74.4 | -105.6 | 29 | 28.3 | 31 | 24.900 | -115.2 | -122.2 | 19 | 20.4 | 31 | 24.900 | -100.2 | -106.2 | 31 | 52.3 | | | | | | | | | | | | | | | | | | | | |
| | 31 | -140 | -8.7 | 12.8 | 34 | -18.31 | -82 | | | | | 31 | -128 | -77.6 | -109.6 | 29 | 29.3 | 31 | 26.352 | -120.3 | -127.3 | 19 | 21.3 | 31 | 26.352 | -99.1 | -105.1 | 31 | 55.2 | | | | | | | | | | | | | | | | | | | | |
| | 31 | -148 | -9.2 | 13.3 | 34 | -19.31 | -90 | | | | | 31 | -136 | -80.8 | -113.6 | 29 | 30.3 | 31 | 27.804 | -125.0 | -132.0 | 19 | 22.3 | 31 | 27.804 | -104.0 | -110.0 | 31 | 58.1 | | | | | | | | | | | | | | | | | | | | |
| | 31 | -156 | -9.7 | 13.8 | 34 | -20.31 | -98 | | | | | 31 | -144 | -84.0 | -117.6 | 29 | 31.3 | 31 | 29.256 | -129.7 | -136.7 | 19 | 23.3 | 31 | 29.256 | -109.0 | -115.0 | 31 | 61.0 | | | | | | | | | | | | | | | | | | | | |
| | 31 | -164 | -10.2 | 14.3 | 34 | -21.31 | -106 | | | | | 31 | -152 | -87.2 | -121.6 | 29 | 32.3 | 31 | 30.708 | -134.4 | -141.4 | 19 | 24.3 | 31 | 30.708 | -113.3 | -119.3 | 31 | 63.9 | | | | | | | | | | | | | | | | | | | | |
| | 31 | -172 | -10.7 | 14.8 | 34 | -22.31 | -114 | | | | | 31 | -160 | -90.4 | -125.6 | 29 | 33.3 | 31 | 32.160 | -139.1 | -146.1 | 19 | 25.3 | 31 | 32.160 | -117.6 | -123.6 | 31 | 66.8 | | | | | | | | | | | | | | | | | | | | |
| | 31 | -180 | -11.2 | 15.3 | 34 | -23.31 | -122 | | | | | 31 | -168 | -93.6 | -129.6 | 29 | 34.3 | 31 | 33.612 | -144.0 | -151.0 | 19 | 26.3 | 31 | 33.612 | -121.9 | -127.9 | 31 | 69.7 | | | | | | | | | | | | | | | | | | | | |
| | 31 | -188 | -11.7 | 15.8 | 34 | -24.31 | -130 | | | | | 31 | -176 | -96.8 | -133.6 | 29 | 35.3 | 31 | 35.064 | -148.8 | -155.8 | 19 | 27.3 | 31 | 35.064 | -126.2 | -132.2 | 31 | 72.6 | | | | | | | | | | | | | | | | | | | | |
| | 31 | -196 | -12.2 | 16.3 | 34 | -25.31 | -138 | | | | | 31 | -184 | -100.0 | -137.6 | 29 | 36.3 | 31 | 36.516 | -153.6 | -160.6 | 19 | 28.3 | 31 | 36.516 | -130.5 | -136.5 | 31 | 75.5 | | | | | | | | | | | | | | | | | | | | |
| | 31 | -204 | -12.7 | 16.8 | 34 | -26.31 | -146 | | | | | 31 | -192 | -103.2 | -141.6 | 29 | 37.3 | 31 | 37.968 | -158.4 | -165.4 | 19 | 29.3 | 31 | 37.968 | -134.8 | -140.8 | 31 | 78.4 | | | | | | | | | | | | | | | | | | | | |
| | 31 | -212 | -13.2 | 17.3 | 34 | -27.31 | -154 | | | | | 31 | -200 | -106.4 | -145.6 | 29 | 38.3 | 31 | 39.420 | -163.2 | -170.2 | 19 | 30.3 | 31 | 39.420 | -139.1 | -145.1 | 31 | 81.3 | | | | | | | | | | | | | | | | | | | | |
| | 31 | -220 | -13.7 | 17.8 | 34 | -28.31 | -162 | | | | | 31 | -208 | -109.6 | -149.6 | 29 | 39.3 | 31 | 40.872 | -168.0 | -175.0 | 19 | 31.3 | 31 | 40.872 | -143.4 | -149.4 | 31 | 84.2 | | | | | | | | | | | | | | | | | | | | |
| | 31 | -228 | -14.2 | 18.3 | 34 | -29.31 | -170 | | | | | 31 | -216 | -112.8 | -153.6 | 29 | 40.3 | 31 | 42.324 | -172.8 | -179.8 | 19 | 32.3 | 31 | 42.324 | -147.7 | -153.7 | 31 | 87.1 | | | | | | | | | | | | | | | | | | | | |
| | 31 | -236 | -14.7 | 18.8 | 34 | -30.31 | -178 | | | | | 31 | -224 | -116.0 | -157.6 | 29 | 41.3 | 31 | 43.776 | -177.6 | -184.6 | 19 | 33.3 | 31 | 43.776 | -152.0 | -158.0 | 31 | 90.0 | | | | | | | | | | | | | | | | | | | | |
| | 31 | -244 | -15.2 | 19.3 | 34 | -31.31 | -186 | | | | | 31 | -232 | -119.2 | -161.6 | 29 | 42.3 | 31 | 45.228 | -182.4 | -189.4 | 19 | 34.3 | 31 | 45.228 | -156.3 | -162.3 | 31 | 92.9 | | | | | | | | | | | | | | | | | | | | |
| | 31 | -252 | -15.7 | 19.8 | 34 | -32.31 | -194 | | | | | 31 | -240 | -122.4 | -165.6 | 29 | 43.3 | 31 | 46.680 | -187.2 | -194.2 | 19 | 35.3 | 31 | 46.680 | -160.6 | -166.6 | 31 | 95.8 | | | | | | | | | | | | | | | | | | | | |
| | 31 | -260 | -16.2 | 20.3 | 34 | -33.31 | -202 | | | | | 31 | -248 | -125.6 | -169.6 | 29 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Average monthly values

[illegible]

| WASHINGTON DULLES INT. AP
1007 MB | | | | | | | | | | WAYCROSS, GA.
1010 MB | | | | | | | | | | WINNEVOCA, NEV.
870 MB | | | | | | | | | | WINSLOW, ARIZ.
848 MB | | | | | | | | | | YAKUTAT, ALASKA
1009 MB | | | | | | | | | |
|--------------------------------------|----|--------|-------|-------|----|------|-----|--------|-------|--------------------------|-----|------|-------|--------|-------|-------|----|------|-------|---------------------------|--------|-------|-----|------|-------|--------|-------|------|------|--------------------------|--|--|--|--|--|--|--|--|--|----------------------------|--|--|--|--|--|--|--|--|--|
| SURFACE | 31 | 85 | -4.6 | -4.1 | 31 | -9.3 | 44 | 11.1 | 9.7 | 24 | 1.0 | 31 | 1.312 | -3.7 | -9.9 | 32 | 1 | 31 | 1.487 | 2.2 | -6.9 | 24 | 1.5 | 31 | 12 | 3.3 | -1.4 | 12 | 7.3 | | | | | | | | | | | | | | | | | | | | |
| 1000 | 31 | 141 | | | 34 | 8.31 | 131 | 12.6 | 8.5 | 22 | 2.0 | 31 | 1.88 | | | | | 31 | 140 | | | | 31 | 88 | | | 13 | 3.8 | | | | | | | | | | | | | | | | | | | | | |
| 950 | 31 | 557 | .5 | -5.9 | 30 | 2.6 | 31 | 56 | 5.8 | 24 | 5.1 | 31 | 600 | | | | | 31 | 557 | | | | 31 | 499 | .6 | -3.1 | 13 | 7.5 | | | | | | | | | | | | | | | | | | | | | |
| 900 | 31 | 986 | -8 | -6.9 | 28 | 5.4 | 31 | 1.013 | 9.5 | 3.5 | 25 | 6.8 | 31 | 1.038 | | | | 31 | 1.004 | | | | 31 | 933 | -2.1 | -5.1 | 15 | 8.8 | | | | | | | | | | | | | | | | | | | | | |
| 850 | 31 | 1.442 | -2.3 | -6.9 | 27 | 7.4 | 31 | 1.063 | 7.7 | -1.3 | 26 | 7.9 | 31 | 1.492 | 1.5 | -7.0 | 30 | 2.6 | 31 | 1.466 | | | 31 | 1.23 | 1.385 | -4.9 | -7.5 | 16 | 7.8 | | | | | | | | | | | | | | | | | | | | |
| 800 | 31 | 1.919 | -9.2 | -9.2 | 26 | 1.3 | 31 | 1.085 | 5.7 | -7.6 | 25 | 8.4 | 31 | 1.948 | 4.8 | -9.3 | 31 | 4.1 | 31 | 1.888 | 2.9 | -9.0 | 32 | 1.8 | 1.868 | -1.8 | -10.3 | 17 | 8.1 | | | | | | | | | | | | | | | | | | | | |
| 750 | 30 | 2.432 | -4.9 | -13.1 | 27 | 13.3 | 31 | 2.509 | 3.1 | -9.9 | 26 | 11.5 | 31 | 2.489 | -4.4 | -12.3 | 30 | 4.1 | 31 | 2.474 | -6.6 | -11.8 | 28 | 5.2 | 2.358 | -10.7 | -14.0 | 18 | 6.3 | | | | | | | | | | | | | | | | | | | | |
| 700 | 30 | 2.969 | -7.1 | -15.7 | 27 | 16.4 | 31 | 3.068 | 4 | -12.2 | 26 | 13.9 | 31 | 3.032 | -8.0 | -15.3 | 30 | 5.8 | 31 | 3.025 | -4.4 | -15.1 | 28 | 6.7 | 2.887 | -14.0 | -18.5 | 19 | 6.4 | | | | | | | | | | | | | | | | | | | | |
| 650 | 30 | 3.545 | -10.1 | -18.8 | 27 | 17.5 | 31 | 3.652 | -3.0 | -16.2 | 26 | 15.8 | 31 | 3.602 | -11.0 | -21.9 | 30 | 8.3 | 31 | 3.606 | -8.0 | -17.9 | 29 | 7.7 | 3.446 | -17.1 | -22.9 | 22 | 5.9 | | | | | | | | | | | | | | | | | | | | |
| 600 | 30 | 4.158 | -13.9 | -23.2 | 27 | 20.4 | 31 | 4.288 | -6.8 | -20.4 | 27 | 18.1 | 31 | 4.216 | -14.3 | -25.9 | 30 | 11.2 | 31 | 4.224 | -11.8 | -22.7 | 29 | 9.7 | 4.042 | -20.7 | -26.9 | 23 | 6.8 | | | | | | | | | | | | | | | | | | | | |
| 550 | 30 | 4.812 | -17.8 | -28.3 | 27 | 21.2 | 30 | 4.954 | -10.8 | -23.5 | 27 | 21.3 | 31 | 4.888 | -18.3 | -28.1 | 31 | 12.9 | 31 | 4.884 | -16.0 | -27.9 | 29 | 11.7 | 4.679 | -24.8 | -30.7 | 24 | 9.3 | | | | | | | | | | | | | | | | | | | | |
| 500 | 30 | 5.521 | -22.7 | -33.9 | 27 | 23.7 | 30 | 5.668 | -15.4 | -28.3 | 26 | 23.7 | 31 | 5.578 | -22.7 | -32.5 | 31 | 14.8 | 31 | 5.596 | -21.3 | -33.0 | 28 | 13.9 | 5.368 | -29.2 | -35.5 | 25 | 10.5 | | | | | | | | | | | | | | | | | | | | |
| 450 | 30 | 6.284 | -27.9 | -42.2 | 27 | 25.9 | 30 | 6.467 | -20.8 | -33.7 | 26 | 26.8 | 31 | 6.338 | -28.0 | -37.3 | 31 | 16.5 | 31 | 6.363 | -27.0 | -38.4 | 28 | 15.5 | 6.111 | -34.2 | -39.6 | 25 | 11.7 | | | | | | | | | | | | | | | | | | | | |
| 400 | 30 | 7.123 | -33.9 | -43.8 | 27 | 29.9 | 30 | 7.337 | -27.2 | -38.3 | 26 | 30.7 | 31 | 7.178 | -34.4 | -42.8 | 32 | 18.4 | 31 | 7.204 | -33.3 | -44.2 | 28 | 18.5 | 6.929 | -40.2 | -44.0 | 25 | 13.2 | | | | | | | | | | | | | | | | | | | | |
| 350 | 30 | 8.046 | -40.7 | -47.9 | 27 | 33.2 | 30 | 8.286 | -32.9 | -43.6 | 26 | 33.8 | 31 | 8.098 | -41.4 | -46.7 | 32 | 20.4 | 31 | 8.129 | -40.0 | -49.3 | 28 | 22.4 | 7.829 | -45.9 | -25 | 15.7 | | | | | | | | | | | | | | | | | | | | | |
| 300 | 30 | 9.080 | -47.4 | | 26 | 36.6 | 30 | 9.348 | -41.5 | -47.1 | 26 | 39.1 | 31 | 9.128 | -48.5 | | | 32 | 23.6 | 31 | 9.166 | -47.0 | | 28 | 25.1 | 8.842 | -51.0 | | 26 | 18.1 | | | | | | | | | | | | | | | | | | | |
| 250 | 30 | 10.267 | -53.6 | | 26 | 39.8 | 30 | 10.562 | -50.2 | | 26 | 42.3 | 31 | 10.307 | -55.8 | | | 32 | 22.9 | 31 | 10.354 | -53.7 | | 28 | 29.0 | 10.021 | -53.6 | | 26 | 15.0 | | | | | | | | | | | | | | | | | | | |
| 200 | 30 | 11.639 | -56.3 | | 26 | 40.5 | 30 | 11.993 | -56.9 | | 26 | 50.0 | 31 | 11.699 | -60.1 | | | 31 | 22.6 | 31 | 11.773 | -57.8 | | 28 | 30.7 | 11.453 | -59.3 | | 26 | 13.6 | | | | | | | | | | | | | | | | | | | |
| 175 | 30 | 12.538 | -58.6 | | 26 | 36.6 | 30 | 12.833 | -58.9 | | 26 | 48.5 | 30 | 12.534 | -59.8 | | | 30 | 20.8 | 31 | 12.616 | -56.9 | | 28 | 30.5 | 12.313 | -52.5 | | 26 | 12.6 | | | | | | | | | | | | | | | | | | | |
| 150 | 30 | 13.551 | -57.7 | | 26 | 31.7 | 30 | 13.798 | -61.1 | | 27 | 47.3 | 30 | 13.505 | -57.5 | | | 29 | 19.0 | 31 | 13.593 | -57.4 | | 28 | 29.4 | 13.253 | -57.4 | | 26 | 12.1 | | | | | | | | | | | | | | | | | | | |
| 125 | 30 | 14.680 | -56.9 | | 26 | 28.2 | 30 | 14.919 | -63.8 | | 27 | 39.6 | 30 | 14.654 | -58.4 | | | 30 | 17.1 | 31 | 14.739 | -59.7 | | 28 | 26.5 | 13.493 | -52.1 | | 26 | 9.0 | | | | | | | | | | | | | | | | | | | |
| 100 | 30 | 16.090 | -57.9 | | 26 | 25.2 | 30 | 16.281 | -65.6 | | 27 | 32.7 | 30 | 16.053 | -59.5 | | | 30 | 15.1 | 31 | 16.127 | -61.6 | | 28 | 21.2 | 15.936 | -52.6 | | 26 | 7.3 | | | | | | | | | | | | | | | | | | | |
| 80 | 29 | 17.491 | -58.8 | | 26 | 19.0 | 30 | 17.636 | -65.9 | | 27 | 22.6 | 29 | 17.450 | -59.7 | | | 29 | 11.4 | 31 | 17.504 | -62.9 | | 28 | 17.4 | 17.374 | -53.0 | | 26 | 6.8 | | | | | | | | | | | | | | | | | | | |
| 70 | 29 | 18.330 | -58.0 | | 26 | 16.9 | 30 | 18.448 | -64.8 | | 26 | 17.3 | 29 | 18.285 | -59.5 | | | 29 | 9.1 | 31 | 18.326 | -62.9 | | 28 | 15.2 | 18.228 | -53.2 | | 27 | 4.8 | | | | | | | | | | | | | | | | | | | |
| 60 | 29 | 19.403 | -57.3 | | 27 | 14.7 | 30 | 19.393 | -62.9 | | 26 | 12.5 | 29 | 19.248 | -59.8 | | | 29 | 6.3 | 30 | 19.278 | -60.1 | | 28 | 11.9 | 19.221 | -53.1 | | 24 | 4.0 | | | | | | | | | | | | | | | | | | | |
| 50 | 29 | 20.356 | -58.9 | | 26 | 12.0 | 30 | 20.526 | -59.5 | | 27 | 8.7 | 29 | 20.200 | -59.2 | | | 29 | 7.2 | 30 | 20.412 | -60.5 | | 28 | 9.9 | 20.396 | -53.6 | | 30 | 3.6 | | | | | | | | | | | | | | | | | | | |
| 40 | 29 | 21.676 | -58.7 | | 27 | 10.6 | 30 | 21.932 | -56.7 | | 27 | 5.1 | 29 | 21.791 | -59.2 | | | 29 | 5.9 | 29 | 21.809 | -59.9 | | 28 | 7.8 | 21.829 | -53.3 | | 31 | 1.7 | | | | | | | | | | | | | | | | | | | |
| 30 | 27 | 23.716 | -53.9 | | 27 | 11.1 | 30 | 23.714 | -52.3 | | 29 | 3.2 | 26 | 23.612 | -57.1 | | | 28 | 7.1 | 28 | 23.636 | -54.6 | | 27 | 10.7 | 23.670 | -55.8 | | 34 | 5.1 | | | | | | | | | | | | | | | | | | | |
| 25 | 27 | 24.891 | -52.4 | | 27 | 13.5 | 29 | 24.901 | -55.5 | | 29 | 3.5 | 24 | 24.778 | -55.7 | | | 28 | 9.1 | 28 | 24.808 | -52.4 | | 27 | 13.1 | 24.893 | -56.4 | | 35 | 6.1 | | | | | | | | | | | | | | | | | | | |
| 20 | 26 | 26.335 | -49.9 | | 27 | 17.1 | 24 | 26.425 | -46.7 | | 29 | 4.5 | 23 | 26.207 | -53.1 | | | 27 | 13.4 | 27 | 26.257 | -49.9 | | 26 | 14.2 | 26.262 | -57.7 | | 34 | 7.9 | | | | | | | | | | | | | | | | | | | |
| 15 | 24 | 28.225 | -46.3 | | 27 | 26.1 | 19 | 28.347 | -41.9 | | 28 | 7.8 | 19 | 28.263 | -50.6 | | | 27 | 20.9 | 21 | 28.145 | -47.1 | | 26 | 23.5 | 20.286 | -59.4 | | 34 | 11.3 | | | | | | | | | | | | | | | | | | | |
| 10 | 14 | 30.922 | -39.9 | | 27 | 36.6 | 6 | 31.053 | -39.2 | | | | 7 | 30.658 | -46.3 | | | | 5 | 30.795 | -44.4 | | | | 11 | 30.596 | -60.0 | | | | | | | | | | | | | | | | | | | | | | |

| YAP, CAROLINE IS. | | | | | | | | | | YUCCA FLAT, NEV. | | | | | | | | | |
|-------------------|----|--------|-------|-------|----|------|--------|--------|-------|------------------|----|------|--|--|--|--|--|--|--|
| 1009 MB | | | | | | | | | | 88C MB | | | | | | | | | |
| SURFACE | 31 | 14 | 28.2 | 23.6 | 08 | 5.1 | 31 | 1,198 | 1.2 | -4.7 | 29 | 1.8 | | | | | | | |
| 1000 | 31 | 92 | 26.9 | 21.6 | 08 | 6.6 | 31 | 150 | | | | | | | | | | | |
| 950 | 31 | 538 | 22.8 | 17.4 | 07 | 11.2 | 31 | 566 | | | | | | | | | | | |
| 900 | 31 | 1,014 | 19.9 | 12.9 | 08 | 11.9 | 31 | 1,013 | | | | | | | | | | | |
| 850 | 31 | 1,353 | 17.2 | 8.6 | 08 | 10.5 | 31 | 1,477 | 5.4 | -7.7 | 34 | 3.2 | | | | | | | |
| 800 | 31 | 2,022 | 15.1 | -1.08 | 09 | 9.0 | 31 | 1,970 | -4.4 | -10.1 | 34 | 3.9 | | | | | | | |
| 750 | 31 | 2,568 | 13.6 | -4.6 | 08 | 7.3 | 31 | 2,448 | -9.9 | -13.0 | 34 | 4.4 | | | | | | | |
| 700 | 31 | 3,145 | 11.0 | -8.9 | 09 | 7.3 | 31 | 3,037 | -4.1 | -17.1 | 32 | 5.4 | | | | | | | |
| 650 | 31 | 3,762 | 8.0 | -12.1 | 09 | 8.0 | 31 | 3,613 | -7.9 | -21.0 | 32 | 6.0 | | | | | | | |
| 600 | 31 | 4,416 | 4.3 | -15.9 | 09 | 8.3 | 31 | 4,235 | -11.9 | -25.0 | 31 | 8.4 | | | | | | | |
| 550 | 31 | 5,114 | -1.1 | -18.8 | 10 | 8.8 | 31 | 4,890 | -18.0 | -29.5 | 31 | 11.1 | | | | | | | |
| 500 | 31 | 5,878 | -4.2 | -22.7 | 10 | 9.7 | 31 | 5,608 | -28.6 | -33.4 | 32 | 13.7 | | | | | | | |
| 450 | 31 | 6,693 | -8.9 | -27.6 | 09 | 10.6 | 31 | 6,374 | -25.5 | -37.7 | 33 | 15.8 | | | | | | | |
| 400 | 31 | 7,604 | -14.6 | -31.8 | 10 | 9.5 | 31 | 7,218 | -32.8 | -43.5 | 31 | 18.3 | | | | | | | |
| 350 | 31 | 8,602 | -21.3 | -37.4 | 08 | 8.0 | 31 | 8,144 | -39.7 | -48.8 | 31 | 19.1 | | | | | | | |
| 300 | 31 | 9,721 | -29.5 | -44.9 | 10 | 7.7 | 31 | 9,181 | -47.3 | | 31 | 20.9 | | | | | | | |
| 250 | 31 | 10,993 | -39.9 | -53.5 | 12 | 7.7 | 31 | 10,385 | -54.9 | | 31 | 22.5 | | | | | | | |
| 200 | 31 | 12,747 | -52.2 | | 13 | 8.4 | 31 | 11,774 | -58.5 | | 31 | 26.3 | | | | | | | |
| 175 | 31 | 13,330 | -59.5 | | 12 | 11.0 | 31 | 12,581 | -63.9 | | 29 | 26.9 | | | | | | | |
| 150 | 31 | 14,277 | -67.2 | | 12 | 11.0 | 31 | 13,589 | -57.4 | | 29 | 26.9 | | | | | | | |
| 125 | 31 | 15,356 | -74.9 | | 11 | 13.9 | 31 | 14,738 | -58.9 | | 29 | 23.2 | | | | | | | |
| 100 | 31 | 16,629 | -81.4 | | 11 | 11.4 | 31 | 16,131 | -60.4 | | 28 | 19.9 | | | | | | | |
| 80 | 31 | 17,881 | -80.2 | | 10 | 5.0 | 31 | 17,517 | -61.2 | | 28 | 16.4 | | | | | | | |
| 70 | 31 | 18,642 | -76.5 | | 10 | 1.6 | 31 | 18,346 | -61.0 | | 28 | 13.0 | | | | | | | |
| 60 | 31 | 19,541 | -71.1 | | 12 | 7.3 | 31 | 19,238 | -65.4 | | 29 | 9.5 | | | | | | | |
| 50 | 30 | 20,627 | -67.0 | | 10 | 2.3 | 31 | 20,446 | -55.1 | | 28 | 7.9 | | | | | | | |
| 40 | 30 | 21,996 | -60.3 | | 10 | 3.5 | 31 | 21,849 | -57.7 | | 27 | 7.8 | | | | | | | |
| 30 | 30 | 23,809 | -56.2 | | 09 | 15.8 | 29 | 23,678 | -55.4 | | 27 | 9.9 | | | | | | | |
| 25 | 28 | 24,975 | -53.4 | | 09 | 20.3 | 28 | 24,845 | -53.4 | | 24 | 12.6 | | | | | | | |
| 20 | 27 | 26,420 | -50.0 | | 09 | 20.3 | 26 | 26,295 | -50.6 | | 26 | 15.6 | | | | | | | |
| 15 | 22 | 28,317 | -45.8 | | 09 | 17.2 | 22 | 28,194 | -46.9 | | 26 | 22.5 | | | | | | | |
| 10 | 9 | 31,051 | -41.3 | | 10 | 10 | 30,954 | -39.3 | | | | | | | | | | | |

Note: All observations scheduled at 1200, G.C.T. Pressures shown under station names are the average monthly station pressures for the month of record, corrected to the height of the floors of the instrument shelters used for rawinsonde purposes. "Number of observations" refers to those of dynamic height only. Although the number of temperature observations at any given pressure surface is usually the same as for height, it is possible for temperature to be missing for one or more pressure surfaces of some observations. Dew Point averages are limited to those observations with temperature data. The number of observations of wind speed and direction are sometimes less, due to limiting angles, i.e., elevation angles less than 6° above the horizon, or any obstruction above the horizon. The temperature and wind values are based on 15 or more observations at the surface or 5 observations at a standard pressure level for temperature and 10 for wind. Dew Point data are not published for standard pressure surfaces for which less than 5 observations are available. Dew Point data are computed and expressed on the basis of vapor pressure over water. Unless otherwise indicated, they are obtained from carbon hygrometers. The wind values for standard pressure surfaces were obtained by rawinsondes; dynamic height (geopotential) in units of 98 dynamic meter, temperature and dew point in degrees Celsius, and resultant winds in tens of degrees and meters per second.

- Rawinsondes at this station were equipped with hypsometers to permit more accurate evaluations of pressure, and consequently height, at pressures lower than 50 mb. These rawinsondes were carried aloft by special high altitude balloons, in an effort to consistently reach higher altitudes.
- + Observations for these stations are scheduled at 0000 G. C. T.
- * Dew Point temperatures are based on a correction of 1.5 observations. Therefore, due to the lesser number of Dew Point observations at the higher levels comparison with dry-bulb temperatures should be made with care. Dew Point temperatures measured at pressure Humidity January 1967.

SOLAR RADIATION INTENSITIES

Tabulated in langleys per minute on a surface normal to the direction of the sun.

MARCH 1970

| | Sun's zenith distance | | | | | | | | |
|---------------|-----------------------|-------|-------|-------|------|-------|-------|-------|-------|
| Date | A M | | | | . | P. M | | | |
| | 78.7° | 75.7° | 70.7° | 60.0° | | 60.0° | 70.7° | 75.7° | 78.7° |
| TUCSON, ARIZ. | | | | | | | | | |
| Air mass | | | | | | | | | |
| | 4.56 | 3.63 | 2.74 | 1.83 | * | 1.83 | 2.74 | 3.65 | 4.56 |
| March | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1----- | --- | --- | 1.08 | 1.26 | --- | --- | --- | --- | --- |
| 3----- | 0.86 | 0.97 | 1.04 | 1.26 | 1.41 | 1.26 | 1.09 | 0.97 | 0.89 |
| 4----- | --- | --- | --- | --- | 1.39 | 1.23 | --- | --- | --- |
| 7----- | .81 | .90 | 1.03 | 1.20 | 1.39 | 1.21 | 1.05 | .92 | .84 |
| 8----- | .86 | --- | --- | --- | --- | --- | --- | --- | --- |
| 9----- | --- | --- | 1.04 | 1.20 | --- | 1.22 | --- | --- | --- |
| 11----- | --- | --- | --- | 1.18 | 1.33 | 1.19 | 1.02 | .91 | --- |
| 12----- | .81 | .97 | 1.08 | 1.25 | 1.41 | --- | 1.14 | 1.01 | .91 |
| 13----- | --- | --- | 1.04 | 1.43 | 1.18 | --- | --- | --- | --- |
| 14----- | --- | 1.07 | 1.12 | 1.27 | 1.46 | --- | 1.13 | 1.00 | .85 |
| 15----- | --- | .93 | 1.09 | 1.23 | 1.39 | 1.22 | 1.04 | .91 | .80 |
| 16----- | .96 | 1.07 | 1.17 | 1.30 | 1.46 | 1.30 | 1.14 | 1.01 | .92 |
| 17----- | .92 | 1.02 | 1.13 | 1.28 | --- | 1.25 | 1.08 | .93 | .84 |
| 18----- | .70 | .81 | .95 | 1.15 | 1.39 | 1.19 | 1.01 | .85 | .78 |
| 19----- | --- | --- | --- | --- | --- | 1.26 | 1.09 | .95 | .86 |
| 20----- | .90 | 1.00 | 1.12 | 1.27 | 1.46 | 1.27 | 1.12 | .97 | .84 |
| 21----- | .91 | 1.00 | 1.13 | 1.28 | 1.44 | 1.26 | --- | .98 | .87 |
| 23----- | --- | --- | 1.05 | --- | 1.38 | 1.23 | 1.02 | .87 | .77 |
| 24----- | .75 | .87 | 1.01 | 1.19 | 1.35 | 1.22 | 1.03 | .86 | .75 |
| 25----- | .82 | .93 | 1.04 | 1.20 | 1.34 | 1.14 | .96 | .84 | .70 |
| 26----- | .66 | .83 | .97 | 1.16 | 1.35 | 1.11 | .93 | .80 | .69 |
| 27----- | --- | --- | --- | 1.19 | 1.39 | --- | --- | --- | --- |
| 28----- | .83 | .94 | 1.05 | 1.24 | 1.44 | 1.24 | 1.07 | .91 | .79 |
| 29----- | .78 | .87 | .99 | --- | --- | --- | --- | --- | --- |
| 30----- | .67 | .80 | .94 | 1.12 | 1.38 | 1.19 | --- | .82 | --- |
| 31----- | --- | --- | --- | --- | --- | 1.12 | --- | --- | .69 |
| Aver-
ages | 0.82 | 0.94 | 1.05 | 1.22 | 1.40 | 1.21 | 1.06 | 0.92 | 0.81 |

OMAHA, NEBR.

| | | | | | | | | | |
|--------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Air mass | | | | | | | | | |
| | 4.78 | 3.82 | 2.87 | 1.91 | * | 1.91 | 2.87 | 3.82 | 4.78 |
| March 4----- | HS0.90 | HS1.01 | 1.14 | 1.28 | --- | 1.10 | 0.82 | --- | --- |
| 5----- | .75 | .93 | 1.06 | --- | --- | --- | --- | --- | --- |
| 6----- | .78 | .92 | 1.10 | 1.25 | 1.32 | 1.20 | 1.02 | 0.90 | 0.74 |
| 7----- | --- | HS .97 | HS1.08 | HS1.23 | HS1.28 | --- | --- | .52 | .48 |
| 8----- | --- | HS .97 | HS1.08 | HS1.23 | HS1.28 | --- | --- | .52 | .48 |
| 9----- | HI .54 | HI .67 | HM .86 | HM1.04 | --- | --- | --- | --- | --- |
| 10----- | --- | --- | --- | --- | --- | HM1.13 | --- | --- | HM .74 |
| 11----- | --- | --- | --- | --- | 1.38 | --- | --- | --- | --- |
| 12----- | --- | --- | --- | --- | --- | 1.12 | --- | --- | --- |
| 13----- | HS .96 | HS1.06 | HS1.18 | HS1.32 | --- | HS1.21 | HS1.05 | HS .83 | HM .72 |
| 14----- | --- | --- | KS1.06 | --- | --- | --- | --- | --- | --- |
| 15----- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 16----- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 17----- | HM .76 | HM .88 | KS1.02 | KS1.15 | --- | --- | --- | --- | --- |
| 18----- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 19----- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 20----- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 21----- | HM .80 | HM .88 | HM1.02 | HS1.04 | HS1.29 | HM1.10 | HM .84 | HM .74 | HM .68 |
| 22----- | --- | --- | --- | HS1.15 | HS1.30 | --- | --- | --- | --- |
| 23----- | --- | --- | --- | HS1.14 | 1.37 | HS1.02 | --- | HM .57 | HM .25 |
| Averages | 0.78 | 0.92 | 1.06 | 1.18 | 1.33 | 1.13 | 0.94 | 0.71 | 0.60 |

Langley is the unit used to denote one gram calorie per square centimeter. An explanation of the formula used in computing the air mass values for each station listed above appears

| Date | Sun's zenith distance | | | | | | | | |
|---------------|-----------------------|--------|--------|--------|--------|--------|--------|--------|-------|
| | A. M. | | | | * | P. M. | | | |
| | 78.7° | 75.7° | 70.7° | 60.0° | | 60.0° | 70.7° | 75.7° | 78.7° |
| MADISON, WIS. | | | | | | | | | |
| | Air mass | | | | | | | | |
| | 4.69 | 3.75 | 2.81 | 1.88 | * | 1.88 | 2.81 | 3.75 | 4.69 |
| March | ----- | ----- | ----- | ----- | ----- | S 1.35 | S 1.17 | S 1.08 | S .93 |
| 4----- | ----- | S 0.93 | S 1.08 | S 1.22 | ----- | M 1.13 | M .89 | M .72 | M .64 |
| 5----- | ----- | ----- | ----- | ----- | ----- | M 1.32 | ----- | ----- | ----- |
| 6----- | ----- | ----- | ----- | ----- | # 0.56 | ----- | ----- | ----- | ----- |
| 7----- | S 0.83 | S .93 | S 1.08 | ----- | ----- | ----- | ----- | ----- | ----- |
| 8----- | ----- | ----- | ----- | ----- | ----- | ----- | S 1.28 | S .96 | ----- |
| 9----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 10----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 11----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 12----- | S .74 | S .83 | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 13----- | S .82 | S .92 | S 1.02 | S 1.21 | 1.33 | S 1.25 | S 1.08 | S .96 | S .84 |
| 14----- | M .78 | S .89 | S .99 | ----- | ----- | ----- | ----- | ----- | ----- |
| 15----- | M .81 | S .92 | S 1.05 | S 1.25 | ----- | ----- | ----- | ----- | ----- |
| 16----- | S .89 | S 1.00 | S 1.11 | S 1.28 | ----- | S 1.27 | S 1.09 | S .98 | S .87 |
| Averages | 0.81 | 0.92 | 1.06 | 1.24 | 0.95 | 1.26 | 1.10 | 0.94 | 0.82 |

ALBUQUERQUE, N. MEX.

| Air mass | | | | | | | | | |
|---------------|---|--------|--------|------|----------------------------|---------|---------|--------|--------|
| | 4.19 | 3.35 | 2.51 | 1.67 | * | 1.67 | 2.51 | 3.35 | 4.19 |
| March | ---- | ---- | ---- | 1.33 | ---- | ---- | ---- | ---- | ---- |
| 1----- | ---- | ---- | ---- | ---- | ---- | ---- | 1.23 | 1.08 | 0.98 |
| 3----- | 0.97 | 1.08 | 1.22 | 1.36 | 1.48 | 1.37 | 1.20 | 1.06 | .95 |
| 6----- | ---- | (.92) | (1.04) | ---- | (1.41) | (1.26) | ---- | .97 | .84 |
| 7----- | ---- | ---- | ---- | 1.35 | 1.41 | 1.28 | 1.12 | .97 | .86 |
| 8----- | 1.03 | 1.13 | 1.25 | ---- | 1.50 | ---- | ---- | ---- | ---- |
| 9----- | .95 | 1.01 | 1.13 | ---- | 1.46 | ---- | ---- | ---- | ---- |
| 12----- | ---- | ---- | ---- | ---- | ---- | 1.35 | ---- | 1.06 | .96 |
| 13----- | 1.01 | 1.12 | 1.24 | 1.58 | ---- | ---- | 1.19 | 1.04 | .90 |
| 14----- | .98 | 1.07 | 1.21 | 1.32 | 1.49 | ---- | ---- | ---- | ---- |
| 15----- | ---- | ---- | 1.17 | 1.31 | 1.45 | 1.26 | .98 | ---- | ---- |
| 19----- | .91 | 1.02 | 1.13 | 1.27 | ---- | 1.27 | 1.08 | .95 | .80 |
| 21----- | ---- | ---- | ---- | 1.29 | 1.45 | ---- | ---- | ---- | ---- |
| 22----- | .90 | 1.02 | 1.15 | 1.28 | ---- | ---- | ---- | ---- | ---- |
| 23----- | .98 | 1.06 | 1.18 | 1.31 | 1.43 | 1.29 | 1.15 | 1.00 | .88 |
| 25----- | H(.46) | H(.59) | H(.86) | ---- | H(1.39) | H(1.24) | H(1.03) | H(.86) | H(.70) |
| 28----- | ---- | ---- | ---- | ---- | ---- | 1.14 | .72 | .53 | .40 |
| 30----- | ---- | ---- | ---- | 1.18 | ---- | ---- | .77 | .65 | .53 |
| Aver-
ages | 0.95 | 1.02 | 1.18 | 1.32 | 1.46 | 1.28 | 1.05 | 0.94 | 0.82 |
| HS | Slight haze | | | S | Slight | | | | |
| H | Haze | | | M | Moderate | | | | |
| HM | Moderate haze | | | () | Clouds present | | | | |
| HI | Intense haze | | | # | Partial ecl'pse of the sun | | | | |
| KS | Slight smoke | | | | | | | | |
| * | Values corresponding to true solar noon | | | | | | | | |

in the February 1957 issue, Vol. 8, No. 2, page 63, of this publication.

SOLAR RADIATION TOTALS

Daily totals and monthly averages of solar radiation (direct and diffuse) received on a horizontal surface, tabulated in langley's.

MARCH 1970

| Station | Day of month | | | | | | | | | | | | 29 | 30 | 31 | Avg. | | | | | | | | | | | | | | |
|---------------------------|--------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | | | | | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 |
| ALBUQUERQUE, N.M. | 378 | 405 | 316 | 485 | 227 | 440 | 462 | 473 | 463 | 213 | 285 | 454 | 506 | 524 | 534 | 326 | 381 | 596 | 277 | 638 | 648 | 661 | 658 | 658 | 662 | 615 | 146 | 652 | --- | |
| AMES, IOWA | 61 | 22 | 63 | 149 | 351 | 394 | 346 | 369 | 394 | 387 | 361 | 413 | 379 | 369 | 458 | 472 | 376 | 268 | 46 | 408 | 473 | 310 | 147 | 358 | 47 | 241 | 257 | 477 | 346 | |
| ANNETTE, ALASKA | 277 | 280 | 63 | 149 | 160 | 62 | 170 | 95 | 331 | 330 | 331 | 76 | 130 | 68 | 127 | 229 | 373 | 23 | 52 | 254 | 126 | 84 | 109 | 147 | 307 | 97 | 351 | 117 | 202 | |
| APLACHICOLA, FLORIDA | 493 | 475 | 425 | 154 | 369 | 499 | 64 | 89 | 57 | 555 | 128 | 407 | 140 | 588 | 773 | 569 | 493 | 465 | 271 | 238 | 207 | 477 | 586 | 587 | 51 | 393 | 591 | 42 | 230 | |
| ARGONNE NAT. LAB. | 58 | 73 | 44 | 76 | 415 | 200 | 356 | 395 | 377 | 183 | 428 | 372 | 342 | 328 | 499 | 498 | 356 | 183 | 207 | 671 | 395 | 441 | 426 | 95 | 480 | 577 | 606 | 503 | 376 | |
| ASTORIA, OREGON | 354 | 419 | 274 | 480 | 237 | 420 | 306 | 342 | 274 | 400 | 242 | 123 | 187 | 232 | 107 | 252 | 326 | 460 | 472 | 488 | 480 | 434 | 72 | 416 | 414 | 496 | 202 | 362 | --- | |
| ATLANTA, GEORGIA | 326 | 427 | 288 | 135 | 388 | 407 | 103 | 184 | 527 | 517 | 313 | 303 | 146 | 572 | 574 | 549 | 318 | 418 | 24 | 254 | 259 | 157 | 428 | 343 | 565 | 471 | 276 | 466 | 580 | |
| BARROW, ALASKA | 92 | 99 | 118 | 100 | 104 | 69 | 96 | 95 | 132 | 141 | 172 | 155 | 157 | 189 | 195 | 196 | 166 | 213 | 240 | 236 | 257 | 272 | 213 | 230 | 143 | 248 | 210 | 203 | 196 | |
| BETHEL, ALASKA | 85 | 170 | 112 | 148 | 138 | 96 | 236 | 256 | 137 | 118 | 158 | 247 | 268 | 215 | 270 | 275 | --- | 203 | 176 | 116 | 319 | 190 | 315 | 139 | 139 | 135 | 351 | 177 | 170 | |
| BISMARCK, N.D.A.C. | 235 | 91 | 443 | 444 | 367 | 414 | 226 | 217 | 371 | 375 | 402 | 477 | 422 | 486 | 522 | 515 | 513 | 494 | 240 | 526 | 230 | 298 | 305 | 272 | 327 | 368 | 602 | 390 | 488 | |
| BONNEVILLE, UTAH | 124 | 224 | 176 | 242 | 406 | 268 | 143 | 342 | 434 | 453 | 209 | 269 | 354 | 148 | 410 | 148 | 358 | 452 | 517 | 437 | 480 | 447 | 416 | 424 | 450 | 463 | 508 | 278 | 231 | |
| BROWN, SOUTH DAK. | 399 | 38 | 195 | 391 | 218 | 331 | 283 | 217 | 242 | 291 | 290 | 406 | 472 | 441 | 448 | 459 | 397 | 125 | 467 | 430 | 480 | 447 | 416 | 424 | 450 | 463 | 508 | 278 | 231 | |
| BROWNSVILLE, TEXAS | 404 | 465 | 407 | 406 | 587 | 196 | 507 | 386 | 527 | 256 | 387 | 548 | 511 | 647 | 645 | --- | 447 | --- | 286 | 104 | 536 | 603 | 393 | 612 | 564 | 537 | 249 | 532 | 534 | |
| BURLINGTON, VERMONT | 3 | 334 | 366 | 292 | 70 | 188 | 201 | 376 | 374 | 255 | 265 | 376 | 162 | 245 | 313 | 325 | 439 | 393 | 466 | 314 | 111 | 379 | 100 | 137 | 392 | 136 | 398 | 257 | 254 | |
| CAPE HATTERAS, N.C. | 376 | 122 | 300 | 310 | 41 | 182 | 428 | 452 | 210 | 344 | 400 | 269 | 83 | 289 | 480 | 505 | 507 | 178 | 140 | 74 | 133 | 214 | 541 | 543 | 449 | 135 | 592 | 295 | 175 | |
| CARLETON, MAINE | 399 | 345 | 428 | 430 | 217 | 334 | 393 | 300 | 381 | 233 | 277 | 416 | 400 | 277 | 349 | 272 | 325 | 422 | 510 | 359 | 117 | 359 | 311 | 330 | 454 | 105 | 473 | 546 | 594 | |
| CHARLESTON, S.C. | 239 | 298 | 456 | 435 | 73 | 186 | 309 | 74 | 407 | 509 | 460 | 478 | 513 | 576 | 584 | 594 | 484 | 424 | 371 | 446 | 101 | 570 | 588 | 581 | 263 | 606 | 96 | 390 | 72 | |
| CLEVELAND, OHIO | 234 | 131 | 161 | 34 | --- | 392 | 288 | 388 | 427 | 321 | 466 | 203 | 379 | 308 | 354 | 435 | 354 | 101 | 260 | 193 | 86 | 130 | 101 | 338 | 105 | 248 | 109 | 342 | 526 | |
| COLUMBIA, MISSOURI | 82 | 111 | 282 | 440 | 481 | 379 | 421 | 181 | 283 | 117 | 188 | 385 | 332 | 439 | 466 | 188 | 125 | 64 | 198 | 244 | 456 | 272 | 528 | 97 | 269 | 501 | 218 | 574 | 231 | |
| DODGE CITY, KANSAS | 251 | 273 | 443 | 478 | 384 | 442 | 461 | 515 | 60 | 418 | 178 | 271 | 491 | 507 | 316 | 468 | 306 | 222 | 599 | 593 | 596 | 573 | 577 | 535 | 457 | 570 | 141 | 578 | 96 | |
| EL CAMINO, CALIF. | 55 | 54 | 45 | 39 | 452 | 218 | 284 | 187 | 447 | 385 | 468 | 354 | 314 | 268 | 269 | 373 | 446 | 177 | 446 | 47 | 512 | 115 | 282 | 158 | 348 | 197 | 463 | 644 | 566 | |
| EL CENTRO, CALIF. | 81 | 149 | 189 | 155 | 109 | 93 | 128 | 194 | 195 | 168 | 231 | 235 | 250 | 207 | 184 | 141 | 211 | 122 | 251 | 181 | 185 | 188 | 249 | 215 | 283 | 230 | 276 | 195 | 281 | |
| EL PASO, TEXAS | 545 | 486 | 416 | 487 | 333 | 299 | 529 | 579 | 574 | 501 | 268 | 497 | 606 | 601 | 601 | 469 | 598 | 575 | 417 | 137 | 612 | 473 | 642 | 666 | 661 | 655 | 491 | 674 | 524 | |
| ENCLAVE, CALIF. | 372 | 352 | 434 | 272 | 312 | 478 | 390 | 231 | 174 | 219 | 407 | 470 | 423 | 193 | 363 | 489 | 255 | 405 | 482 | 51 | 536 | 533 | 537 | 390 | 361 | 296 | 571 | 428 | 382 | |
| ENCLAVE, NEWPORT S.I. | 372 | 352 | 434 | 272 | 312 | 478 | 390 | 231 | 174 | 219 | 407 | 470 | 423 | 193 | 363 | 489 | 255 | 405 | 482 | 51 | 536 | 533 | 537 | 390 | 361 | 296 | 571 | 428 | 382 | |
| FAIRBANKS, ALASKA | 81 | 149 | 189 | 155 | 109 | 93 | 128 | 194 | 195 | 168 | 231 | 235 | 250 | 207 | 184 | 141 | 211 | 122 | 251 | 181 | 185 | 188 | 249 | 215 | 283 | 230 | 276 | 195 | 281 | |
| FARMINGTON, UTAH | 209 | 167 | 418 | 360 | 367 | 485 | 179 | 242 | 435 | 279 | 341 | 503 | 301 | 370 | 176 | --- | 214 | 210 | 210 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| FLORENCE, TEXAS | 143 | 160 | 427 | 421 | 483 | 136 | 169 | 529 | 527 | 240 | 93 | 177 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| FREED, CALIFORNIA | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | |
| GAINESVILLE, FLORIDA | 466 | 504 | 489 | 153 | 112 | 504 | 179 | 104 | 538 | 436 | 346 | 336 | 384 | 414 | 354 | 493 | 524 | 533 | 544 | 549 | 549 | 549 | 549 | 549 | 549 | 549 | 549 | 549 | 549 | |
| GENEVA, NEW YORK | 238 | 122 | 160 | 60 | 65 | 247 | 226 | 348 | 347 | 408 | 392 | 302 | 320 | 246 | 298 | 290 | 425 | 181 | 378 | 44 | 173 | 164 | 136 | 386 | 405 | 237 | 385 | 166 | 170 | |
| GLASGOW, MONTANA | 152 | 178 | 394 | 421 | 366 | 239 | 132 | 332 | 332 | 332 | 332 | 332 | 332 | 332 | 332 | 332 | 332 | 332 | 332 | 332 | 332 | 332 | 332 | 332 | 332 | 332 | 332 | 332 | 332 | |
| GRAND JUNCTION, COLO. | 106 | 90 | 358 | 352 | 233 | 476 | 462 | 462 | 462 | 462 | 462 | 462 | 462 | 462 | 462 | 462 | 462 | 462 | 462 | 462 | 462 | 462 | 462 | 462 | 462 | 462 | 462 | 462 | 462 | |
| GREAT FALLS, MONTANA | 295 | 594 | 415 | 438 | 490 | 294 | 386 | 226 | 250 | 411 | 347 | 329 | 411 | 283 | 209 | 201 | 257 | 476 | 380 | 475 | 168 | 377 | 231 | 158 | 250 | 206 | 522 | 230 | 266 | |
| GREENSBORO, N.C. | 295 | 594 | 415 | 438 | 490 | 294 | 386 | 226 | 250 | 411 | 347 | 329 | 411 | 283 | 209 | 201 | 257 | 476 | 380 | 475 | 168 | 377 | 231 | 158 | 250 | 206 | 522 | 230 | 266 | |
| INDIANAPOLIS, INDIANA | 131 | 74 | 60 | 38 | 431 | 363 | 370 | 409 | 391 | 138 | 286 | 131 | 317 | 235 | 286 | 463 | 112 | 81 | 158 | 171 | 379 | 174 | 335 | 264 | 65 | 111 | 489 | 352 | 514 | |
| INTERMOUNTAIN, CALIFORNIA | 247 | 409 | 470 | 470 | 436 | 489 | 454 | 487 | 399 | 498 | 429 | 445 | 494 | 438 | 513 | 532 | 498 | 525 | 560 | 560 | 560 | 560 | 560 | 560 | 560 | 560 | 560 | 560 | 560 | |
| ITAPACA, NEW YORK | 336 | 173 | 182 | 94 | 96 | 213 | 337 | 468 | 379 | 485 | 493 | 327 | 259 | 397 | 434 | 408 | 552 | 254 | 440 | 134 | 182 | 142 | 142 | 318 | 420 | 447 | 539 | 318 | 153 | |
| LAKE CHARLES, LA. | 255 | 279 | 131 | 225 | 512 | 143 | 173 | 429 | 544 | 479 | 471 | 164 | 454 | 561 | 554 | 356 | 446 | 484 | 103 | 90 | 115 | 567 | 589 | 610 | 328 | 610 | 607 | 228 | 586 | |
| LAKELAND, FLORIDA | 453 | 453 | 453 | 453 | 453 | 453 | 453 | 453 | 453 | 453 | 453 | 453 | 453 | 453 | 453 | 453 | 453 | 453 | 453 | 453 | 453 | 453 | 453 | 453 | 453 | 453 | 453 | 453 | 453 | |
| LANDER, WYOMING | 366 | 357 | 416 | 372 | 436 | 420 | 359 | 227 | 218 | 346 | 492 | 485 | 401 | 344 | 90 | 424 | 233 | 351 | 561 | 584 | 388 | 570 | 512 | 620 | 190 | 166 | 446 | 401 | 483 | |
| LAS VEGAS, NEVADA | 263 | 420 | 472 | 350 | 359 | 48 | | | | | | | | | | | | | | | | | | | | | | | | |

SOLAR RADIATION TOTALS

Daily totals and monthly averages of solar radiation (direct and diffuse) received on a horizontal surface, tabulated in langleys.

MARCH 1970

| Station | Day of month | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------|--------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | Avg. | |
| BAK RIDGE TENNESSEE | 126 | 360 | 189 | 164 | 103 | 432 | 367 | 443 | 462 | 422 | 420 | 205 | 192 | 472 | 417 | 446 | 230 | 251 | 85 | 314 | 110 | 104 | 275 | 299 | 532 | 176 | 571 | 453 | 459 | 319 | 510 | 316 | |
| OKLAHOMA CITY OKLA. | 271 | 183 | 445 | 397 | 235 | 12 | 189 | 475 | 449 | 76 | 30 | 324 | 470 | 440 | 307 | 27 | 125 | 37 | 154 | 126 | 224 | 519 | 544 | 546 | 284 | 555 | --- | 76 | 96 | 57 | 57 | 258 | |
| PAGE ARIZONA | 44 | 291 | 403 | 436 | 537 | 513 | 426 | 415 | 608 | 195 | 543 | 518 | 546 | 547 | 573 | 572 | 255 | 519 | 631 | 607 | 577 | 606 | 611 | 575 | 633 | 569 | 57 | 457 | 400 | 280 | 474 | | |
| PHOENIX ARIZONA | 281 | 225 | 360 | 454 | 97 | 508 | 506 | 470 | 495 | 221 | 520 | 552 | 546 | 563 | 573 | 590 | 565 | 541 | 606 | 605 | 621 | 574 | 625 | 626 | 619 | 630 | 592 | 665 | 625 | 472 | 463 | 509 | |
| PORTLAND MAINE | 192 | 200 | 424 | 376 | 80 | 347 | 355 | 308 | 446 | 427 | 374 | 445 | 87 | 235 | 236 | 403 | 494 | 365 | 474 | 453 | 166 | 426 | 67 | 344 | 475 | 121 | 514 | 401 | 186 | 559 | 106 | 532 | |
| PROSSER WASHINGTON | 99 | 296 | 342 | 291 | 334 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | |
| RAPID CITY S.DAK. | 34 | 211 | 370 | 320 | 397 | 366 | 390 | 248 | 273 | 459 | 477 | 454 | 445 | 422 | 332 | 437 | 196 | 230 | 230 | 180 | 264 | 193 | 101 | 233 | 181 | 233 | 216 | 174 | 164 | 269 | 264 | 239 | |
| RENO NEVADA | 243 | 441 | 448 | 126 | 367 | 446 | 191 | 246 | 261 | 335 | 198 | 375 | 402 | 475 | 424 | 474 | 409 | 524 | 524 | 509 | 527 | 509 | 511 | 522 | 530 | 453 | 453 | 545 | 544 | 410 | 466 | 423 | |
| SILVER HOLE CALIFORNIA | 131 | 199 | 236 | 260 | 507 | 545 | 500 | 507 | 219 | 382 | 528 | 462 | 496 | 561 | 568 | 578 | 551 | 623 | 623 | 622 | 594 | 589 | 571 | 563 | 509 | 62 | 656 | 624 | 583 | 324 | 582 | 374 | |
| SLUSTON LOUISIANA | 324 | 107 | 28 | 252 | 164 | 436 | 55 | 417 | 491 | 184 | 35 | 56 | 502 | 510 | 502 | 488 | 132 | 481 | 137 | 331 | 67 | 511 | 560 | 537 | 387 | 576 | 576 | 275 | 89 | 280 | 484 | 318 | |
| SAINT CLOUD MINN. | 257 | 61 | 74 | 390 | 89 | 376 | 390 | 264 | 418 | 420 | 448 | 466 | 432 | 482 | 464 | 462 | 460 | 460 | 178 | 493 | 382 | 141 | 395 | 454 | 409 | 466 | 466 | 499 | 194 | 511 | 306 | 467* | |
| SALT LAKE CITY | 169 | 407 | 457 | 303 | 318 | 478 | 471 | 169 | 503 | 489 | 505 | 373 | 404 | 222 | 116 | 411 | 177 | 415 | 530 | 514 | 362 | 584 | 568 | 498 | 623 | 305 | 328 | 345 | 242 | 418 | 485 | 300 | |
| SAN ANTONIO TEXAS | 195 | 70 | 436 | 167 | 530 | 43 | 194 | 535 | 559 | 73 | 170 | 603 | 591 | 590 | 502 | 71 | 608 | 69 | 104 | 115 | 579 | 567 | 594 | 589 | 559 | 503 | 446 | 628 | 627 | 359 | 360 | 187 | |
| SANTA MARIA CALIF. | 257 | 429 | 484 | 100 | 495 | 506 | 473 | 426 | 478 | 310 | 456 | 479 | 493 | 437 | 535 | 529 | 538 | 568 | 569 | 569 | 568 | 576 | 564 | 560 | 544 | 536 | 589 | 587 | 579 | 597 | --- | 494 | |
| SAULT STE MARIE MICH | 179 | 342 | 250 | 71 | 404 | 264 | 318 | 401 | 438 | 444 | 460 | 454 | 445 | 354 | 456 | 477 | 473 | --- | 427 | 98 | 514 | 409 | 322 | 512 | 525 | 148 | 384 | 472 | 599 | 469 | 573 | 392 | |
| SEATTLE TACOMA WASH. | 353 | 214 | 167 | 362 | 210 | 55 | 380 | 381 | 408 | 406 | 161 | 67 | 330 | 230 | 123 | 204 | 284 | 445 | 441 | 212 | 238 | 335 | 104 | 368 | 253 | 318 | 318 | 251 | 270 | 386 | 519 | 480 | 289 |
| SPokane WASHINGTON | 35 | 249 | 297 | 272 | 301 | 112 | 245 | 313 | 360 | 379 | 250 | 170 | 315 | 60 | 166 | 342 | 396 | 437 | 413 | 251 | 340 | 424 | 112 | 469 | 232 | 398 | 364 | 345 | 242 | 418 | 485 | 300 | |
| STERLING VIRGINIA | 307 | 316 | 21 | 35 | 149 | 349 | 332 | 447 | 103 | 364 | 458 | 66 | 213 | 379 | 328 | 386 | 472 | 65 | 133 | 35 | --- | 47 | 414 | 362 | 256 | 343 | 501 | 508 | 56 | 381 | --- | 269 | |
| SWAN ISLAND W.I. | 254 | 528 | 529 | 519 | 543 | 536 | 472 | 505 | 334 | 472 | 516 | 516 | 245 | 118 | 487 | 477 | 416 | 563 | 493 | 565 | 560 | 564 | 583 | 567 | 565 | 534 | 549 | 255 | 592 | 575 | 564 | 483 | |
| TALLAHASSEE FLORIDA | 449 | 445 | 381 | 80 | 279 | 468 | 84 | 54 | 492 | 506 | 183 | 349 | 136 | 546 | 539 | 540 | 399 | 276 | 349 | 277 | 167 | 433 | 512 | 543 | 401 | 345 | 550 | 33 | 341 | 279 | 248 | 344 | |
| TAMPA FLORIDA | 446 | 520 | 452 | 245 | 68 | 523 | 126 | 273 | 506 | --- | 117 | 407 | 306 | 559 | 479 | --- | 297 | 544 | 462 | 483 | 496 | 171 | 615 | 586 | 137 | 157 | 409 | 415 | 480 | 525 | 556 | 392 | |
| TUCSON ARIZONA | 310 | 207 | 405 | 476 | 80 | 365 | 481 | 472 | 498 | 264 | 456 | 524 | 510 | 530 | 531 | 553 | 545 | 524 | 518 | 573 | 568 | 406 | 560 | 569 | 563 | 574 | 590 | 590 | 469 | 587 | 394 | 472 | |
| WAKE ISLAND PACIFIC | 583 | 579 | 581 | 574 | 521 | 573 | 438 | 578 | 609 | 529 | 560 | 464 | 592 | 611 | 617 | 598 | 604 | 616 | 601 | 608 | 625 | 506 | 621 | 606 | 589 | 613 | 647 | 427 | 364 | 489 | 622 | 566 | |

Note. --Langley is the unit used to denote one gram calorie per square centimeter.

Values with an asterisk are interpolated.

The solar radiation data in this table form the basis for the analyses in Charts VII. A. and B. of this publication. The analyses include adjustments required to bring station records to approximately the same level of calibration.

NET RADIATION

Net radiation in langley's per day (8 am to 8 a.m.) at Palmer, Alaska

MARCH 1970

| Date. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | Avg. | | |
|----------------|----|---|---|----|----|----|----|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|----|----|----|----|-----|----|----|----|------|----|----|
| Langley's. . . | 26 | - | 6 | 50 | 20 | 19 | 27 | - | 2 | 30 | 73 | 43 | 49 | 59 | 62 | 50 | 92 | 21 | 24 | 66 | 43 | 51 | 100 | 84 | 36 | 37 | 37 | 119 | - | 7 | 43 | 51 | 34 | 42 |

The measurement is made with a Beckman and Whitley net exchange radiometer over a plot of sod. The value represents the total incoming minus the total outgoing radiation of all wave lengths.

These data are of an experimental nature and are published as received from the Palmer Exp Station. The instrument with which they were measured has not been checked by the ESSA, Weather Bureau.

SOLAR ULTRA-VIOLET RADIATION DATA

Daily totals and monthly average ($\pm 3900 \text{ \AA}$) at Ames, Iowa

| Date. . . . | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | Avg. |
|----------------|------|------|------|-------|-------|-------|-------|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|-------|-------|-------|------|-------|------|-------|-------|-------|-------|-------|-------|-------|
| Langley's. . . | 3.45 | 1.38 | 3.25 | 12.33 | 11.54 | 12.43 | 11.25 | 11.54 | 4.63 | 16.77 | 15.79 | 17.46 | 15.19 | 15.19 | 17.07 | 16.18 | 13.42 | 9.96 | 1.97 | 17.37 | 16.87 | 11.15 | 6.81 | 13.42 | 2.76 | 10.06 | 10.95 | 16.87 | 13.02 | 13.62 | 13.22 | 11.51 |

These data are from an U - V Eppley total ultra violet sensor and Speedomax H (Leeds Northrup) Recorder. It is at the same location (Agronomy Building, Iowa State University, Ames) as the published total solar radiation instrumentation. This instrument has not been checked by the ESSA, Weather Bureau.

TOTAL OZONE DATA

These provisional ozone data are obtained from measurements made with a Dobson ozone spectrophotometer, and are applicable approximately to local apparent noon. The data are presented in the code $\Delta S D D D$ defined in the August 1962 WHO circular entitled "PUBLICATION OF DATA FOR METEOROLOGICAL RESEARCH, WORLD OZONE DATA."

Units Mill-atmo-cms.

| Station | Day of month | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Mean O ₃ |
|---------|----------------------|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|---------------------|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | |
| | Data will be delayed | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

The spectrophotometer measures the total amount of ozone in the atmosphere, i.e., the amount contained in a vertical column of air extending from ground level to the top of the atmosphere in the vicinity of the station. The amount of ozone thus obtained is expressed in terms of a thickness of a layer it would occupy at standard temperature and pressure, e.g., 350 mill-atmo-cm. ozone implies an ozone layer 0.350 centimeter thick. The code ΔS designates the type of measurement made.

Chart 1. A. Normal Daily Average Temperature (°F. 1931-60), March



B. Temperature Departure from 30 - Year Mean (°F 1931-60), March 1970.



Chart II. Total Precipitation (Inches), March 1970.

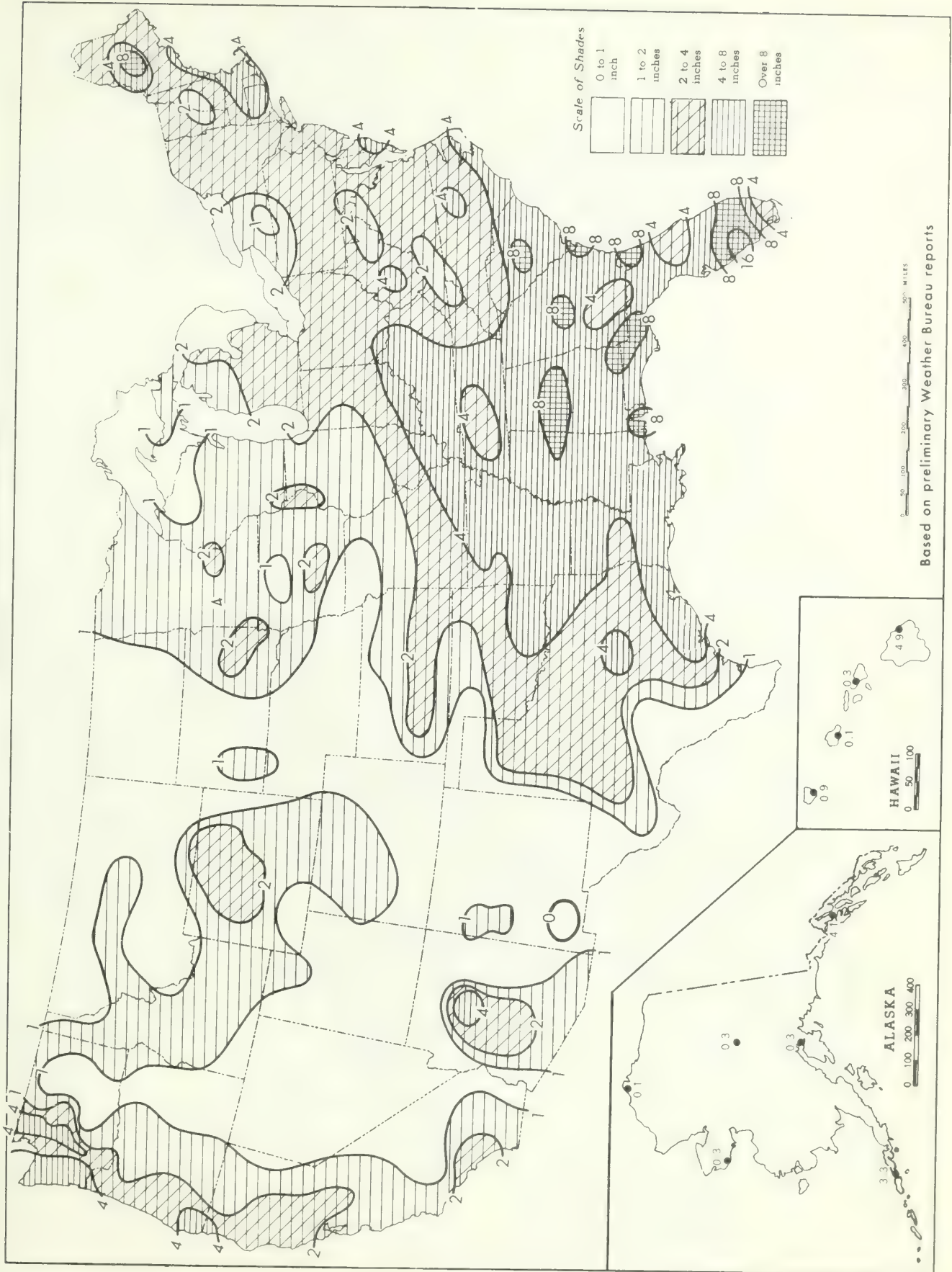


Chart III. Percentage of Normal Precipitation, March 1970.

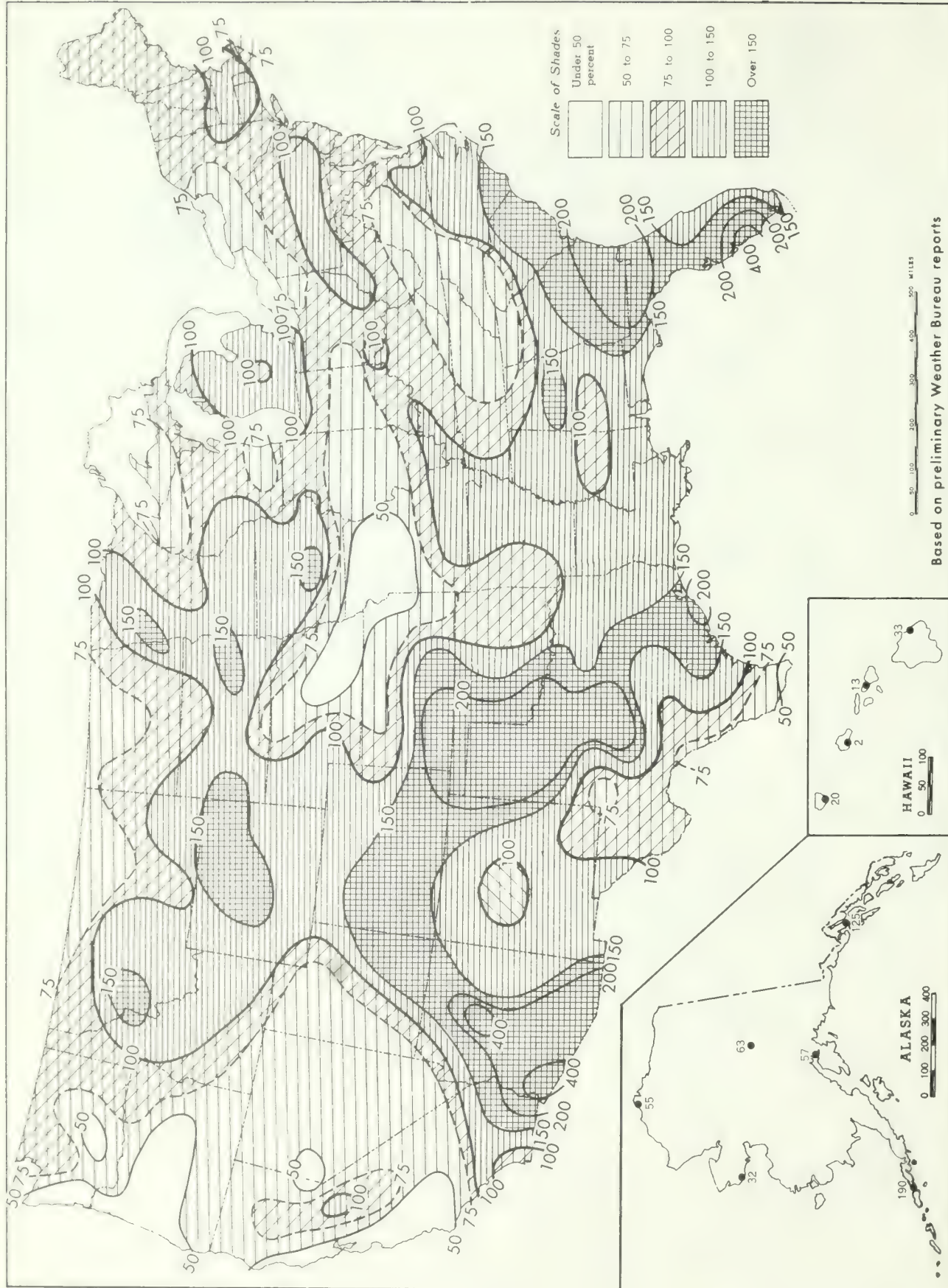
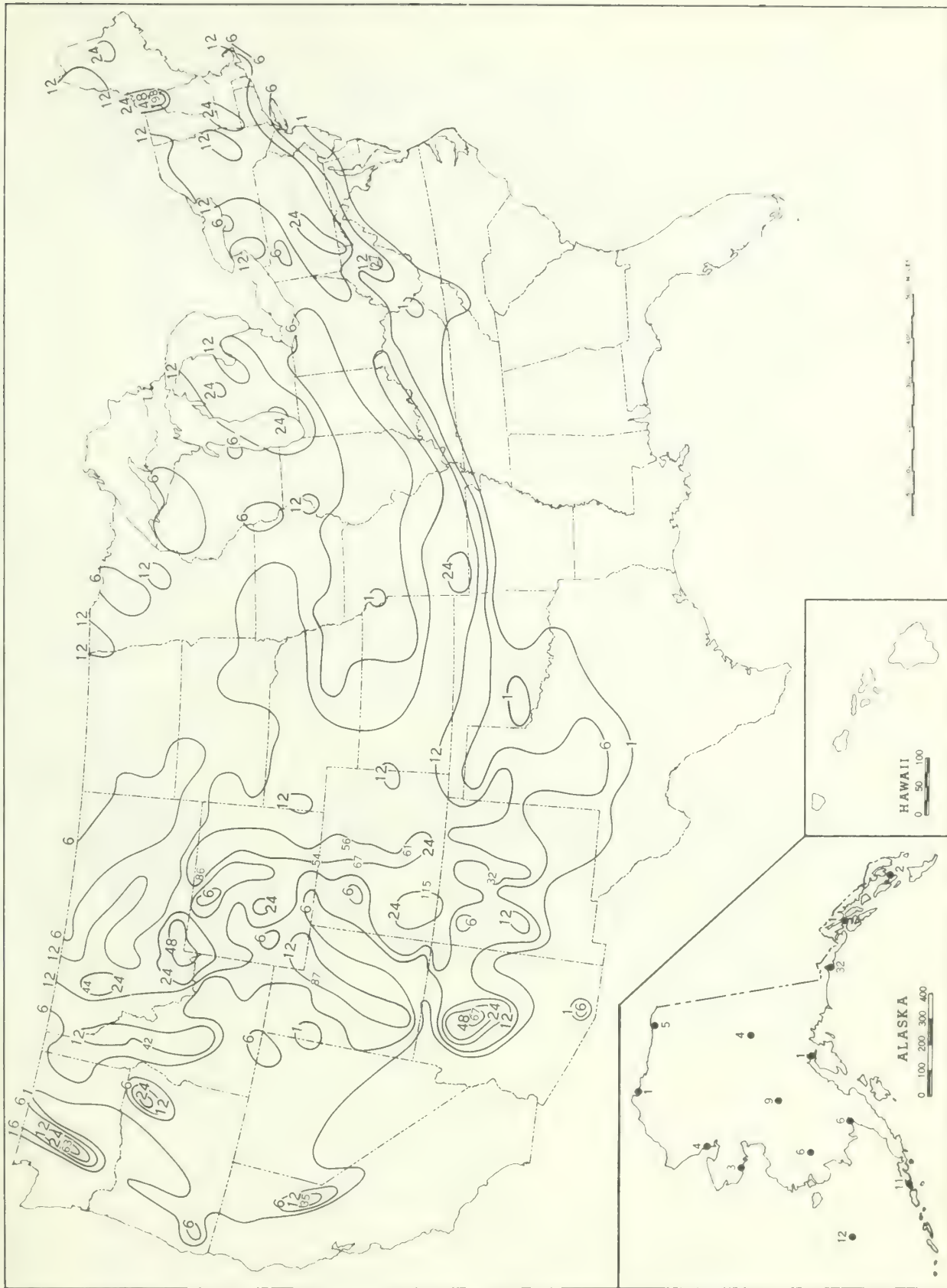
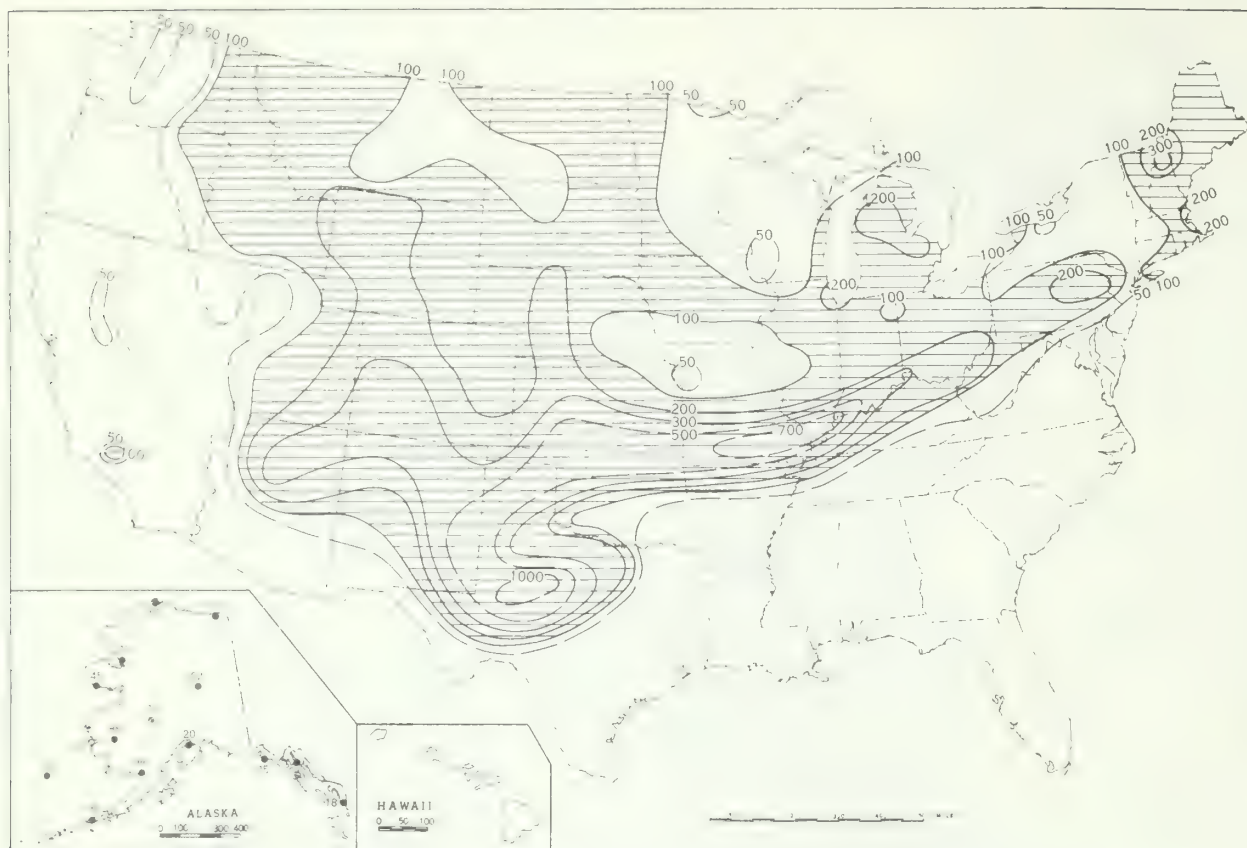


Chart IV. Total Snowfall (Inches), March 1970.

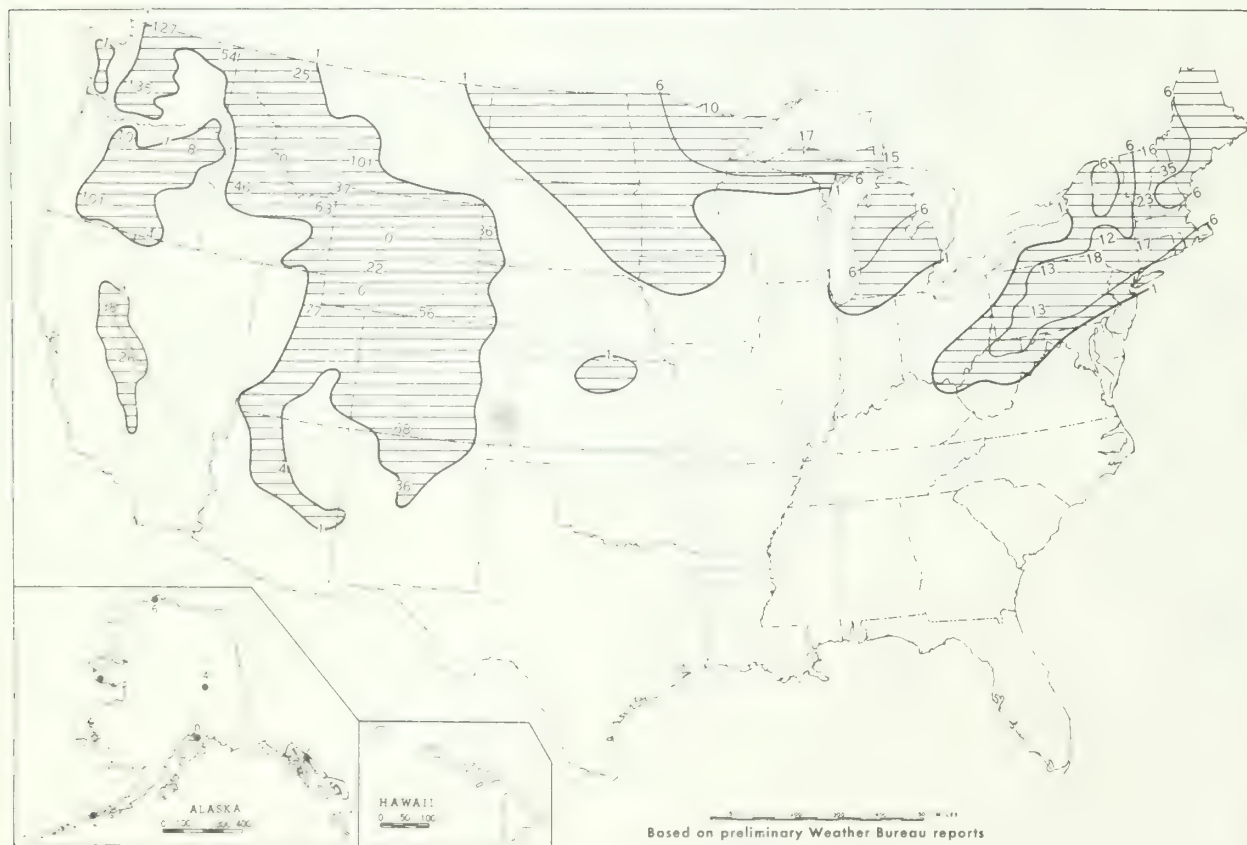


This is the total of unmelted snowfall recorded during the month at Weather Bureau and selected cooperative stations. This Chart and Chart V are published only for the months of November through April, although of course there is some snow at higher elevations, particularly in the far West, earlier and later in the year.

Chart V. A. Percentage of Mean Monthly Snowfall, March 1970.



B. Depth of Snow on Ground (Inches), 7:00 a.m. E. S. T., March 30, 1970.

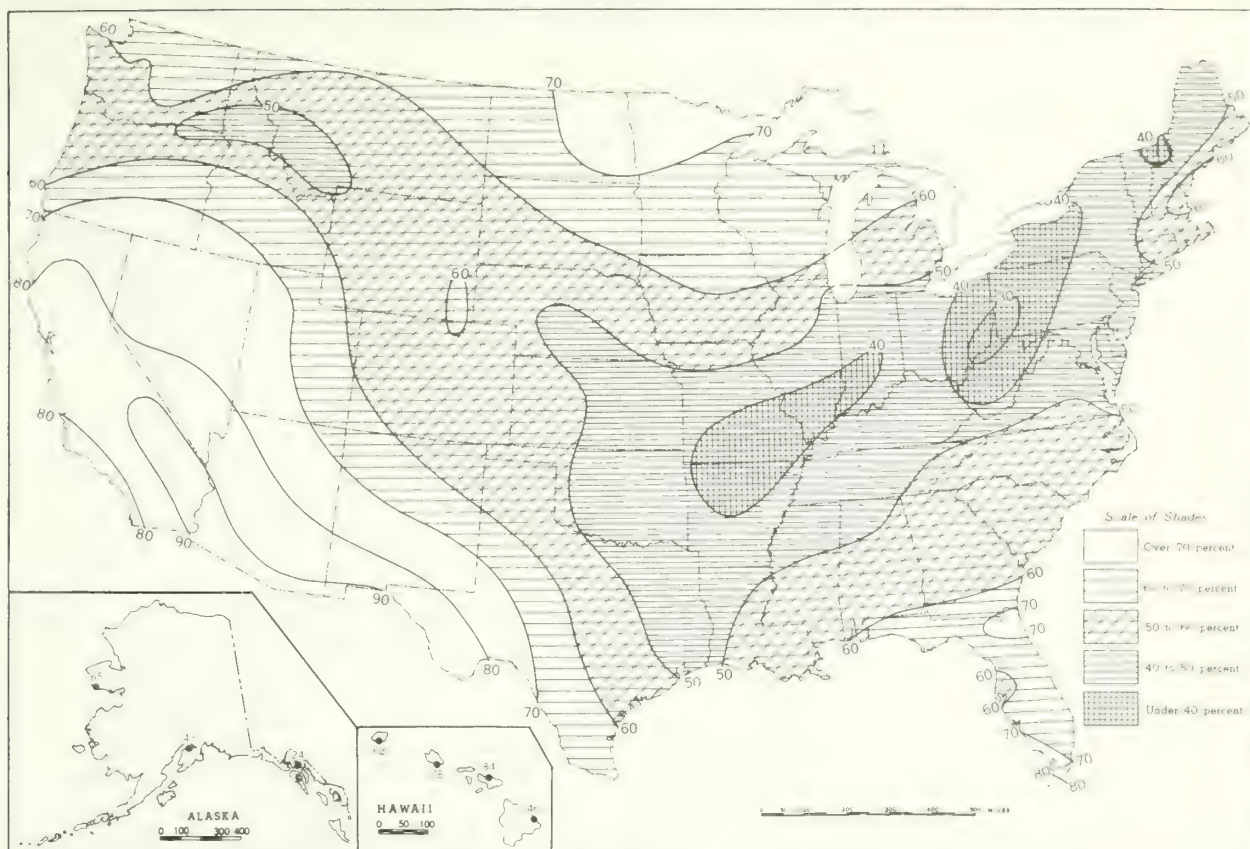


A. Amount of mean monthly snowfall is computed for Weather Bureau stations having at least 10 years of record.

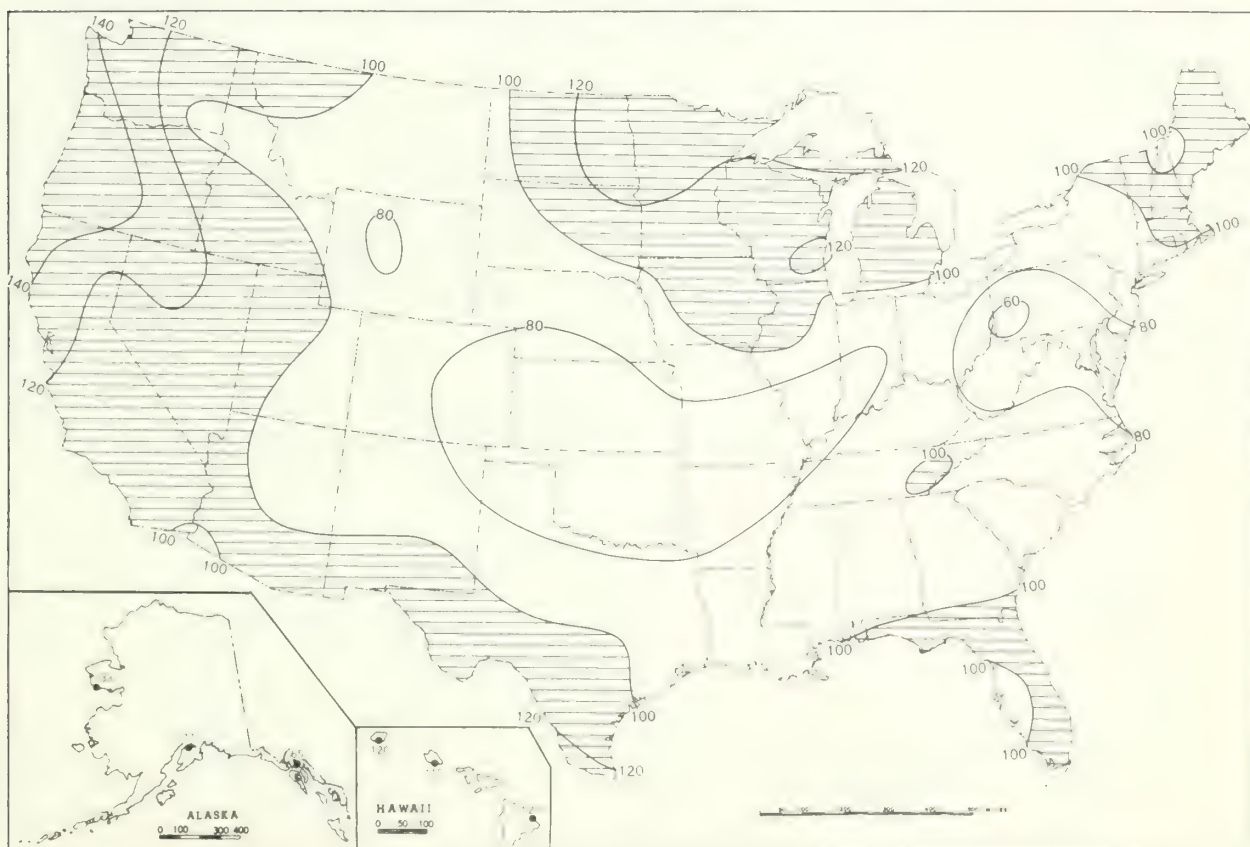
B. Shows depth currently on ground at 7:00 a.m. E.S.T., of the Monday nearest the end of the month.

It is based on reports from Weather Bureau and selected cooperative stations.

Chart VI. A. Percentage of Possible Sunshine, March 1970.

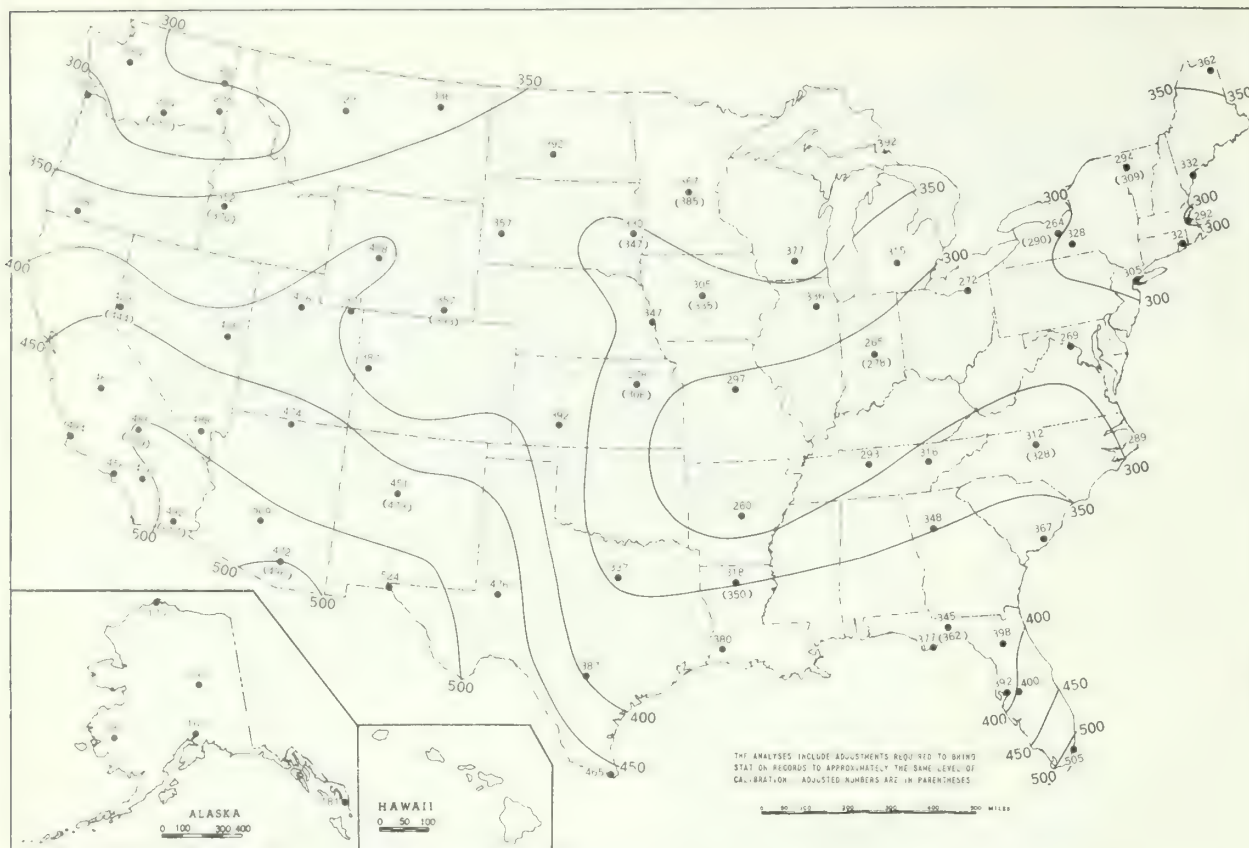


B. Percentage of Mean Monthly Sunshine, March 1970.

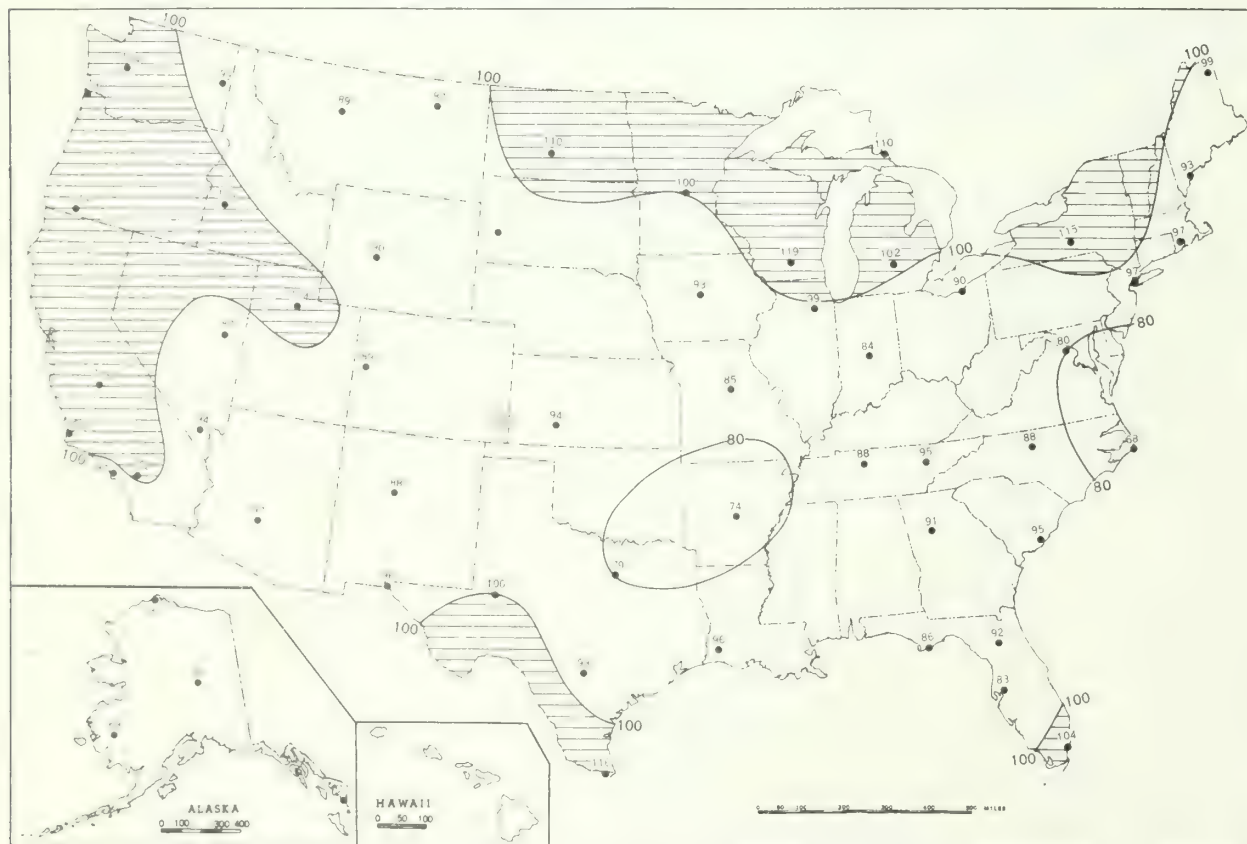


A. Computed from total number of hours of observed sunshine in relation to total number of possible hours of sunshine during month. B. Means are computed for stations having at least 10 years of record.

Chart VII. A. Average Daily Values of Solar Radiation, Langleys, March 1970.

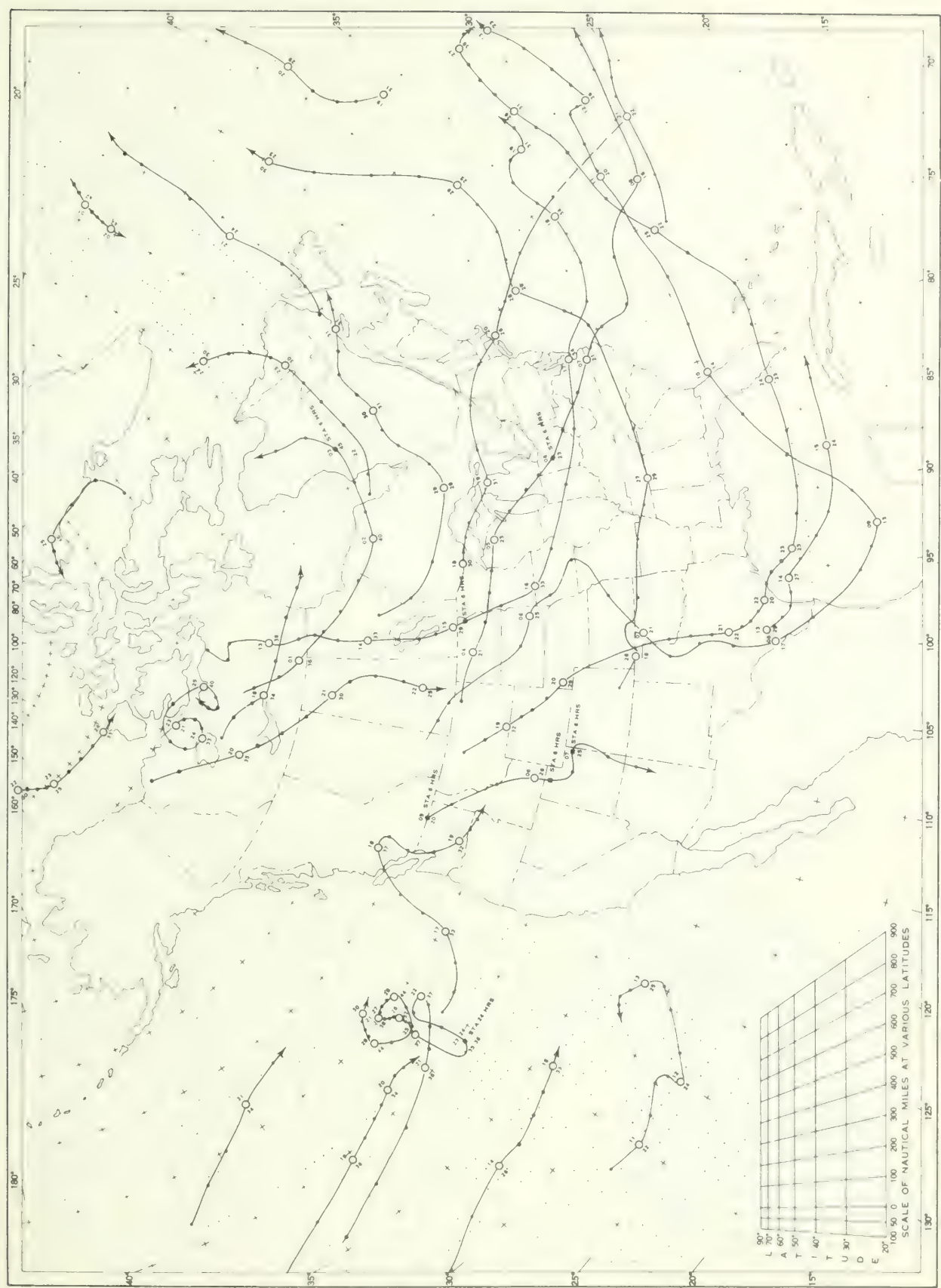


B. Percentage of Mean Daily Solar Radiation, March 1970.



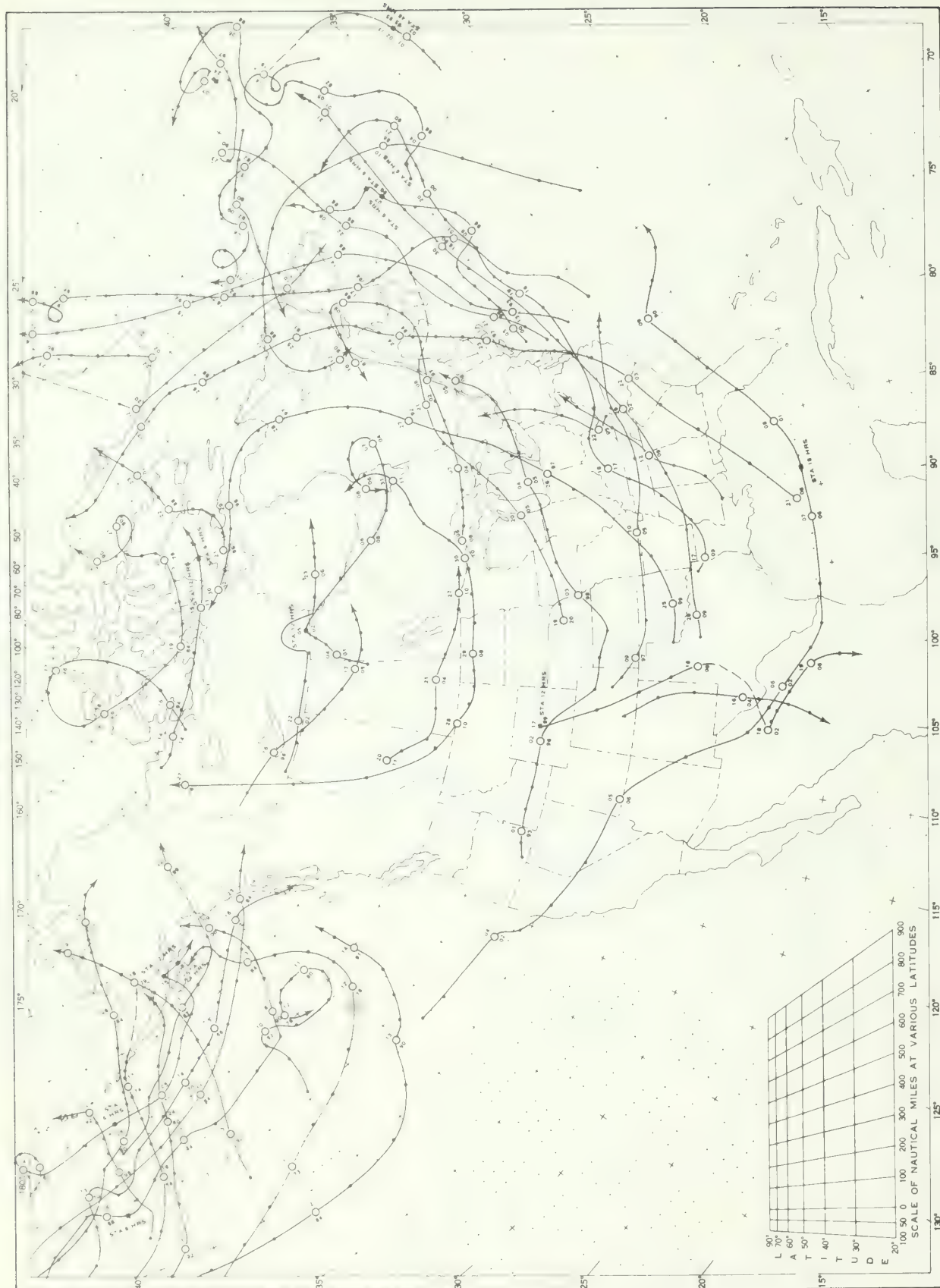
A. Mean daily solar radiation, direct + diffuse, received on a horizontal surface in langleys (1 langley = 1 gm. cal. cm.⁻²) and recorded in International Pyrheliometer Scale of 1956. B. Percentage of the mean based on at least 5 years of record during the period 1950-60, and corrected to the International Pyrheliometer Scale of 1956.

Chart VIII. Tracks of Centers of Anticyclones at Sea Level, March 1970.



Circle indicates position of center at 7:00 a.m. E.S.T. Figure above circle indicates date, figure below, pressure to nearest millibar.
Dots indicate intervening 6-hourly positions. Squares indicate position of stationary center for period shown. Dashed line in track indicates reformation at new position. Only those centers which could be identified for 24 hours or more are included.

Chart IX Tracks of Centers of Cyclones at Sea Level, March 1970.



Circle indicates position of center at 7:00 a.m. E.S.T. Figure above circle indicates date, figure below, pressure to nearest millibar.
Dots indicate intervening 6-hourly positions. Squares indicate position of stationary center for period shown. Dashed line in track indicates reformation at new position. Only those centers which could be identified for 24 hours or more are included.

Average Pressure (mb) from Normal, March 1970.

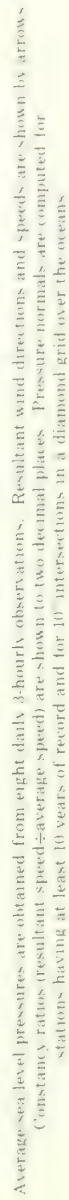
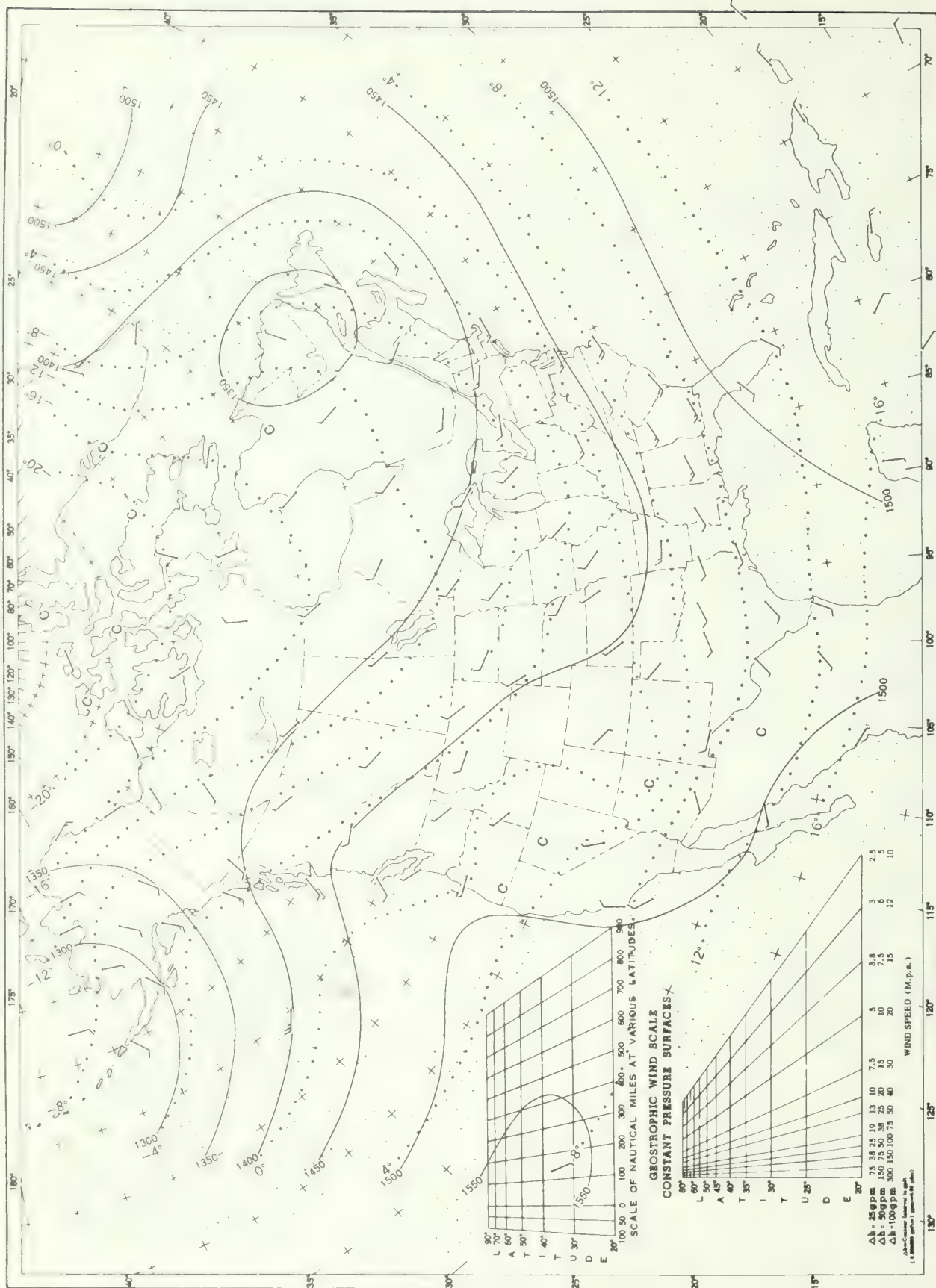


Chart XI 850-mb Surface, 1200 GMT, March 1970. Average Height and Temperature, and Resultant Winds



Height in geopotential meters (1 g.p.m. = 0.98 dynamic meters). Temperature in °C. Wind speed in meters per second; flag represents 25mps, full feather 5 mps, and half feather 2.5 mps. All wind data are based on rawin observations.

[illegible]

Height in geopotential meters (1 g.p.m. = 0.98 dynamic meters). Temperature in °C. Wind speed in meters per second; flag represents 25 mps, full feather 5 mps, and half feather 2.5 mps. All wind data are based on rawin observations.

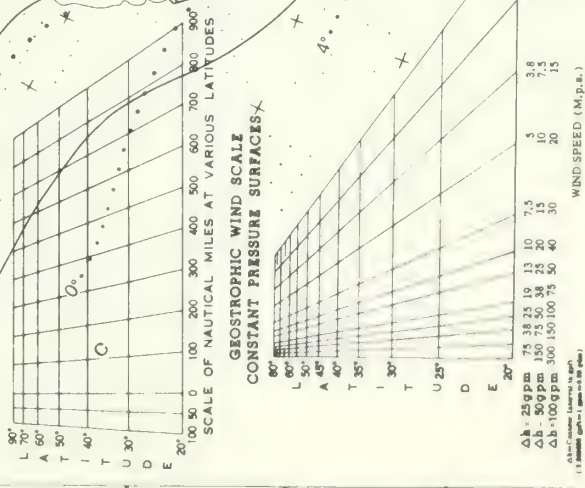
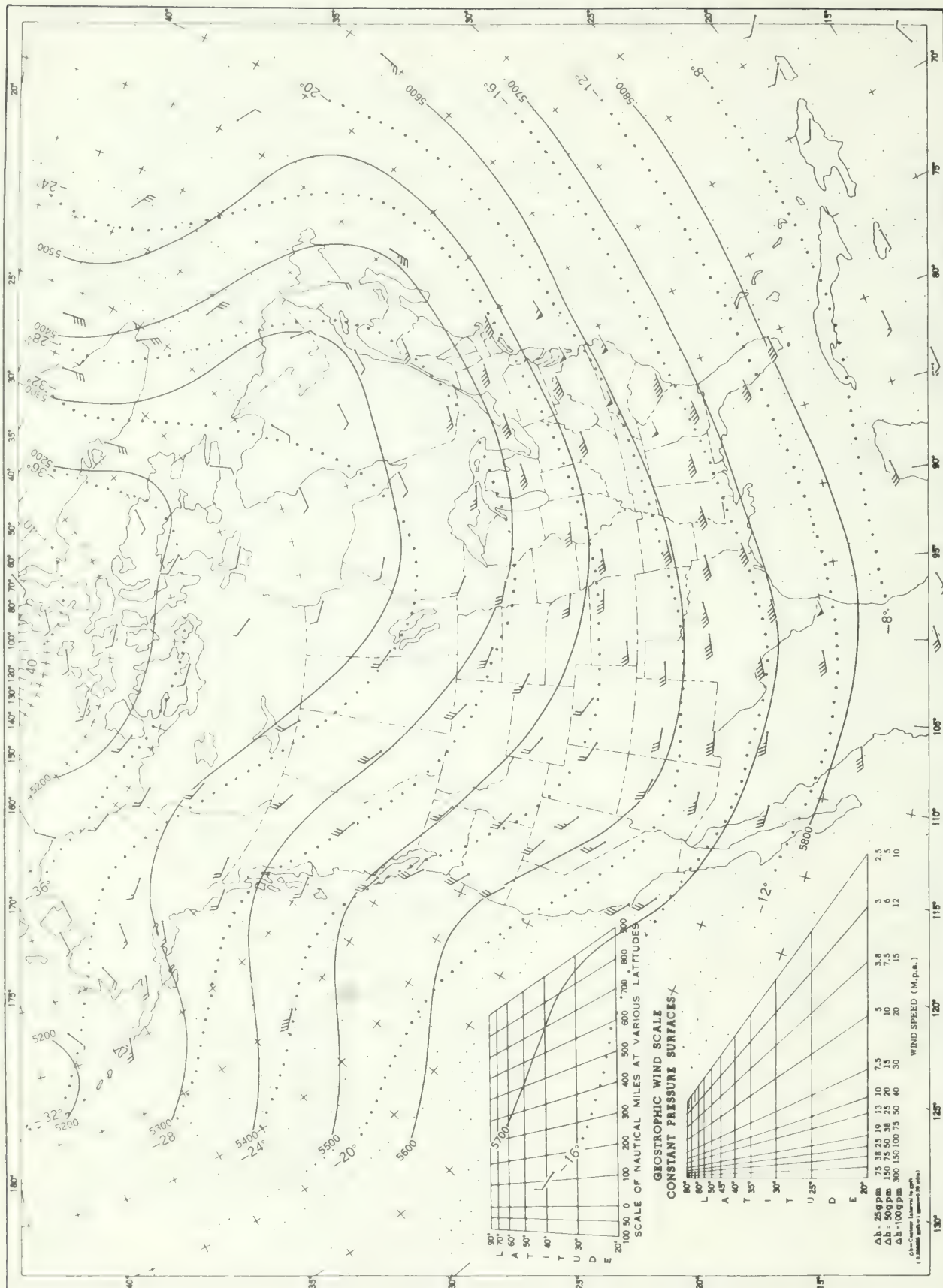
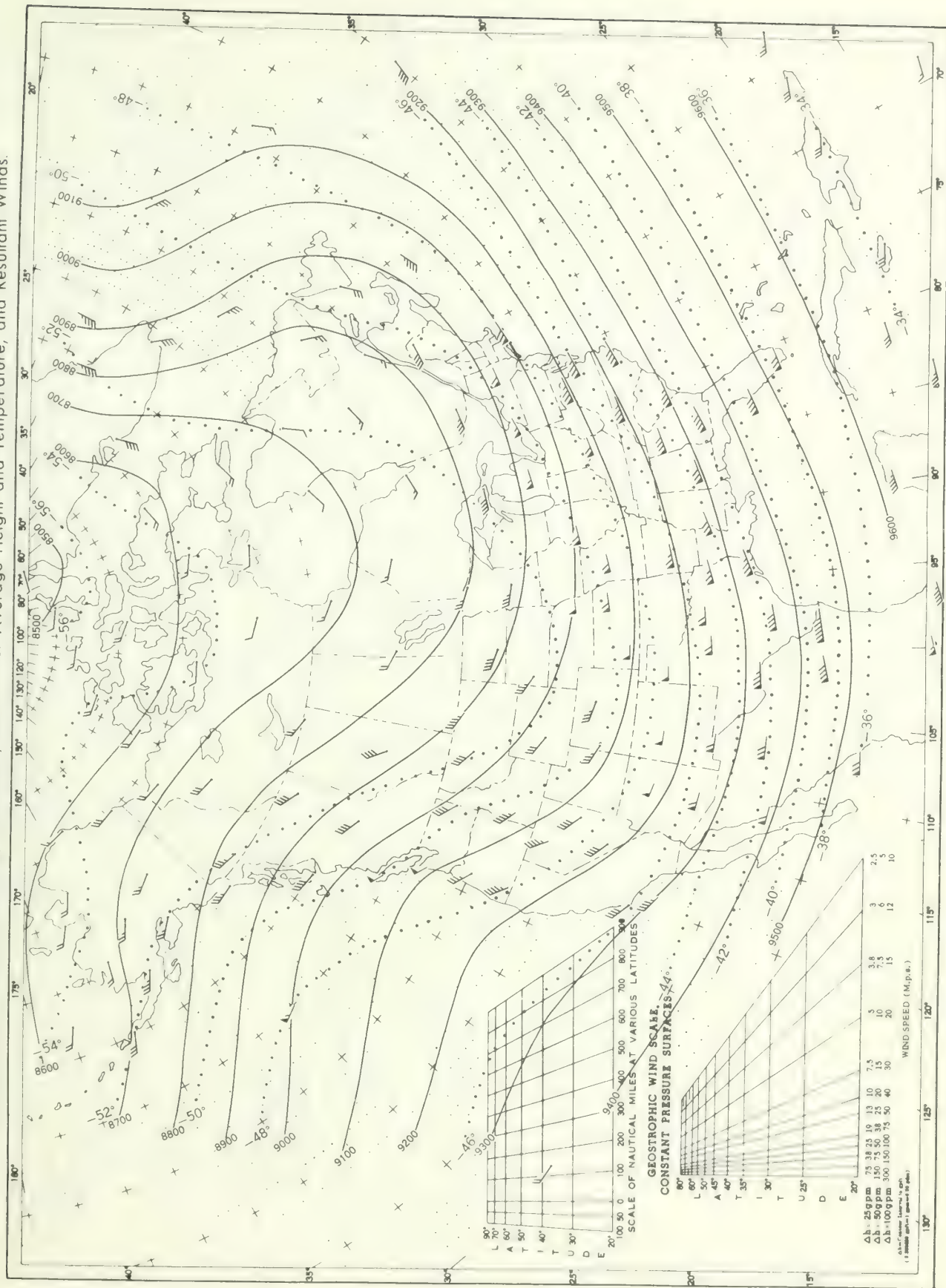


Chart XIII. 500-mb. Surface, 1200 GMT, March 1970. Average Height and Temperature, and Resultant Winds



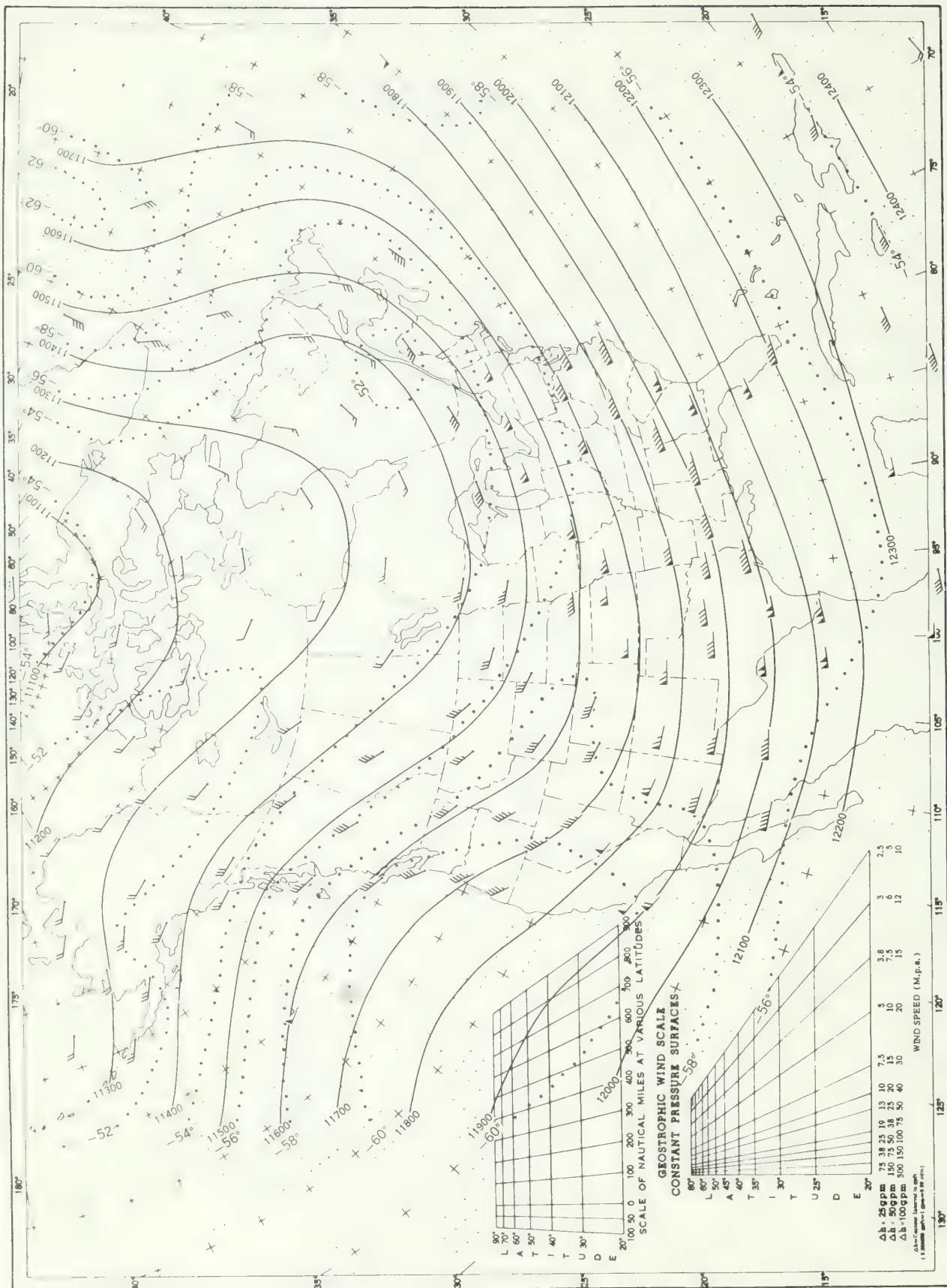
Height in geopotential meters (1 g.p.m. = 0.98 dynamic meters). Temperature in °C. Wind speed in meters per second; flag represents 25mps, full feather 5mps, and half feather 2.5mps. All wind data are based on rawin observations.

Chart XIV. 300-mb. Surface, 1200 GMT, March 1970. Average Height and Temperature, and Resultant Winds.



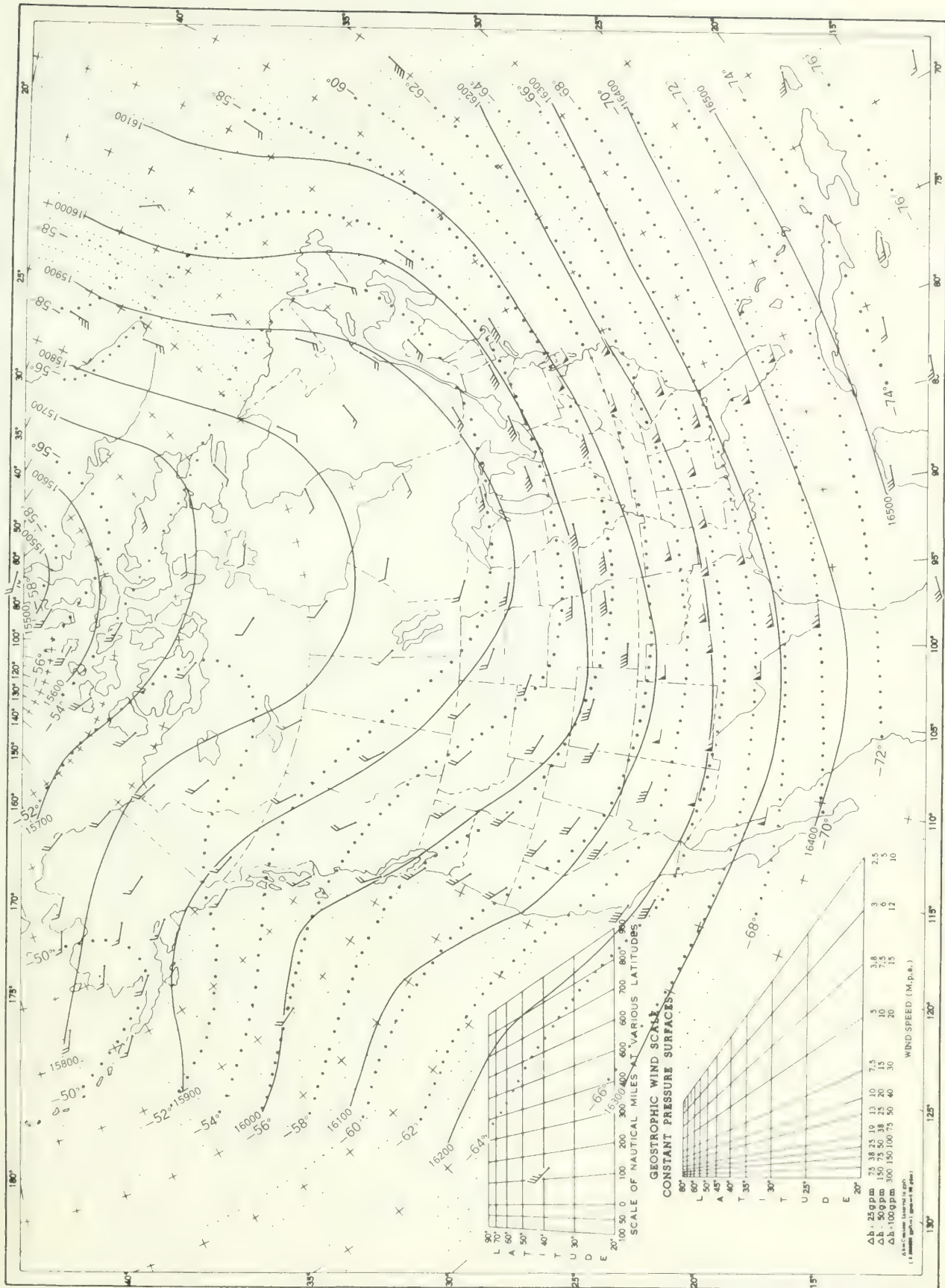
Height in geopotential meters (1 g.p.m. = 0.98 dynamic meters). Temperature in °C. Wind speed in meters per second; flag represents 25 mps, full feather 5 mps, and half feather 2.5 mps. All wind data are based on rawin observations.

Chart XV. 200-mb. Surface, 1200 GMT, March 1970. Average Height and Temperature, and Resultant Winds.

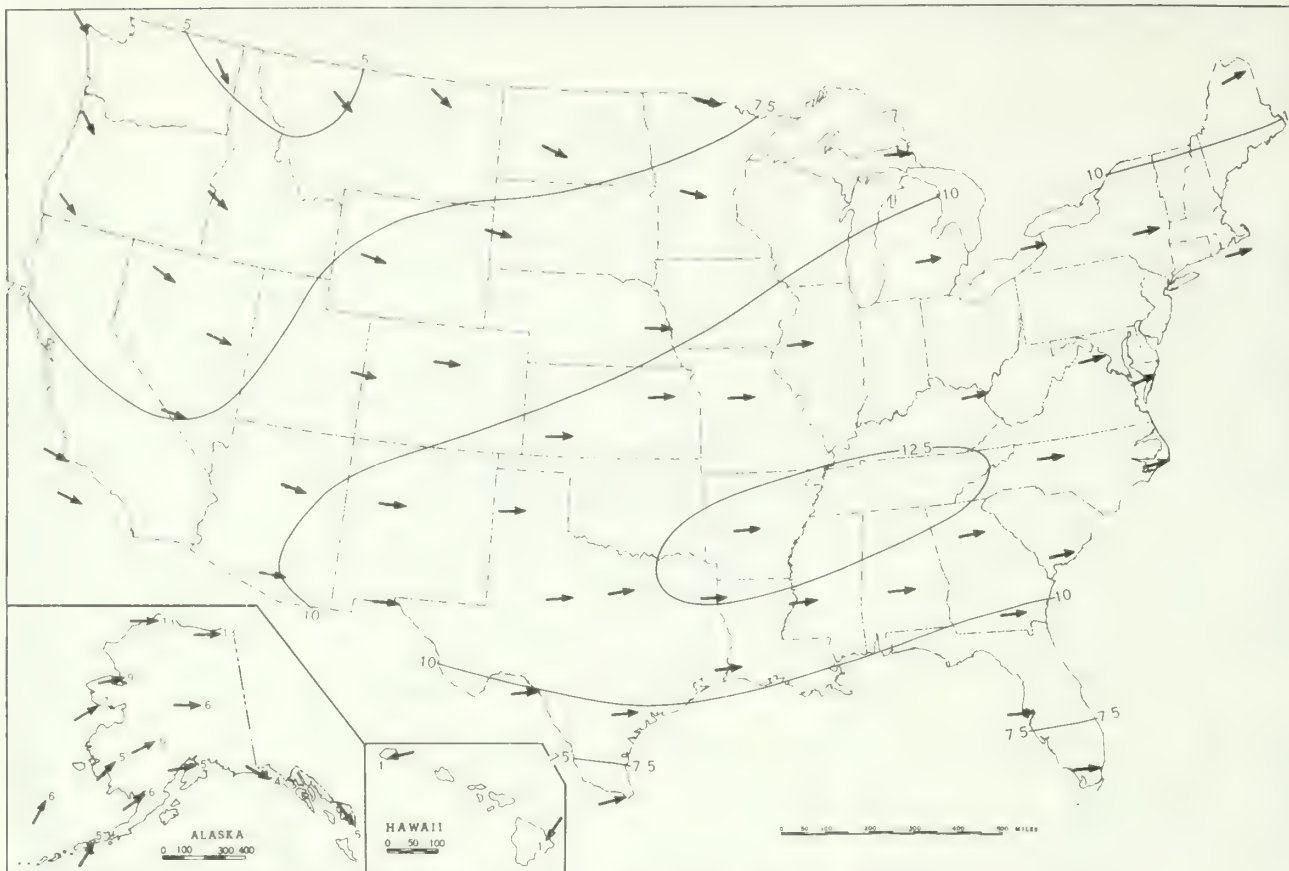


Height in geopotential meters (1 g.p.m. = 0.98 dynamic meters). Temperature in °C. Wind speed in meters per second; flag represents 25 mps, full feather 5 mps, and half feather 2.5 mps. All wind data are based on rawin observations.

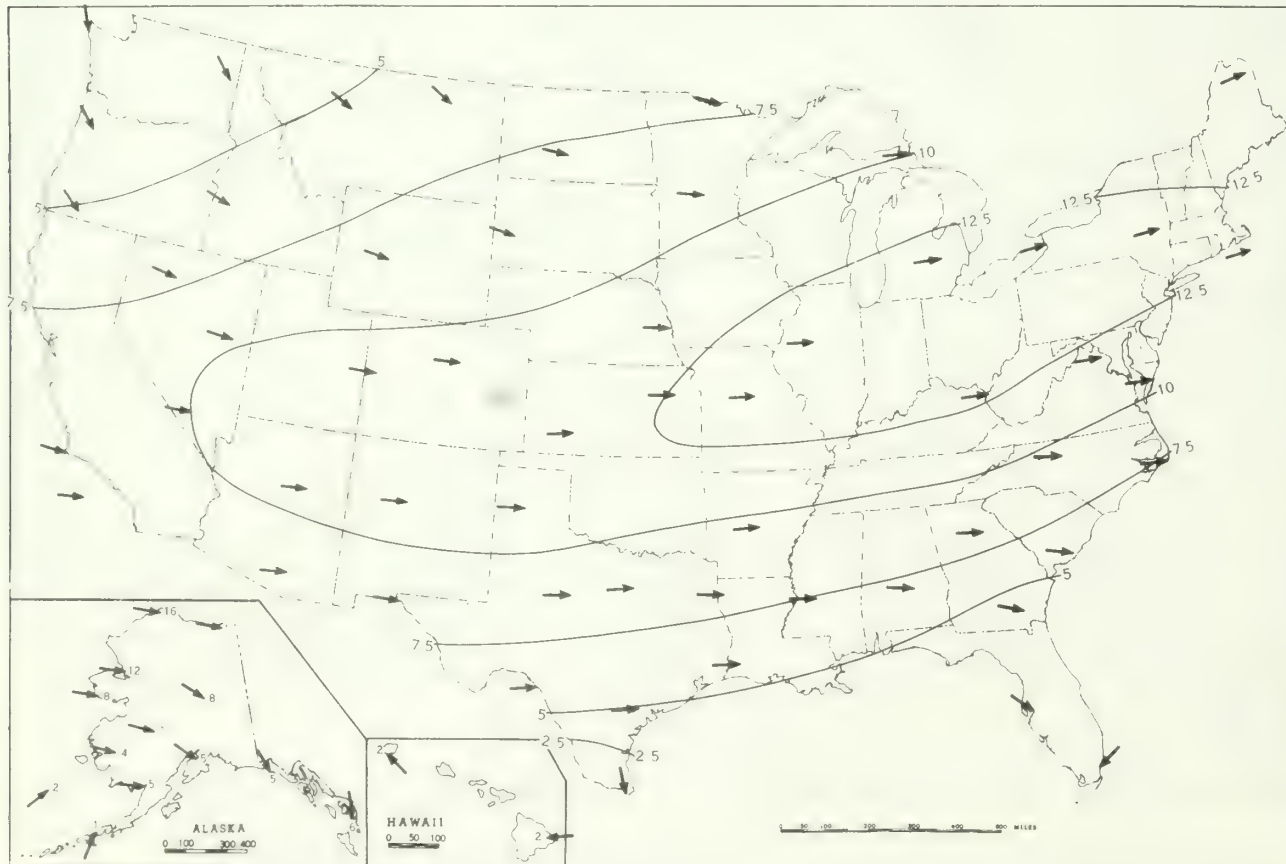
Chart XVI. 100-mb. Surface, 1200 GMT, March 1970. Average Height and Temperature, and Resultant Winds.



Height in geopotential meters (1 g.p.m. = 0.98 dynamic meters). Temperature in °C. Wind speed in meters per second; flag represents 25 mps, full feather 5 mps, and half feather 2.5 mps. All wind data are based on rawin observations.



B. 30-mb. Surface, 1200 GMT, March 1970. Resultant Winds.



Wind speed (isochants) in meters per second. Arrows show resultant wind direction. All wind data are based on rawin observations.

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NATIONAL BUREAU OF STANDARDS
FEDERAL BUREAU OF INVESTIGATION
WASHINGTON, D.C. 20535

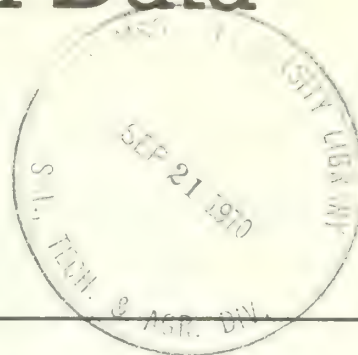
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Climatological Data

NATIONAL SUMMARY

U.S. DEPARTMENT OF COMMERCE
Environmental Science Services Administration
Environmental Data Service



APRIL

1970

Volume 21

No. 4

Chapel Hill, N.C.

1970

C O N T E N T S

| SURFACE DATA | Page |
|---|------|
| General Summary of Weather Conditions----- | 165 |
| Observed Extremes of Temperature and Precipitation - By States----- | 166 |
| Climatological Data - Stations - English Units----- | 167 |
| Climatological Data - Stations - Metric Units----- | 174 |
| Heating Degree Days----- | 181 |
| Cooling Degree Days----- | 182 |
| Storm Summary----- | 183 |
| General Summary of River and Flood Conditions----- | 184 |
| Flood Stage Data----- | 188 |
| UPPER AIR DATA | |
| Rawinsonde Data----- | 192 |
| SOLAR RADIATION DATA | |
| Solar Radiation Intensities----- | 198 |
| Daily Totals and Monthly Averages----- | 199 |
| Net Radiation----- | 201 |
| Solar Ultra-Violet Radiation----- | 201 |
| TOTAL OZONE DATA----- | 201 |
| CHARTS I-XVII----- | 202 |

NOTE: Delayed data and corrections will be carried in the June and December issues of this publication. An explanatory page "Description of Charts" will be carried in the January and July issues.

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CLIMATOLOGICAL DATA

NATIONAL SUMMARY

Volume 21 No. 4

APRIL 1970

GENERAL SUMMARY OF WEATHER CONDITIONS

HIGHLIGHTS:

1. Cool temperatures predominated in the West; warm temperatures in the East.
2. Numerous storms occurred; Heavy snows in the North; severe thunderstorms and tornadoes in the South.

TEMPERATURE-- In general, temperatures in April averaged slightly below normal over the western half of the Nation and slightly above normal over the eastern half. Cool weather predominated over almost the entire Nation during the first week. Warmer-than-normal weather prevailed in the second week, except in the Northwest and from the Great Lakes to the Carolinas, Georgia, and western Florida. Temperatures in the rest of the month averaged much like the monthly pattern, cool in the West and warm in the East. Many places in the West recorded monthly average temperatures that were among the coldest in many decades.

PRECIPITATION-- Numerous severe thunderstorms and a few tornadoes occurred over the Southland early in April as heavy snow fell in the North. During the snowstorm of April 1 and 2, Lansing, Michigan, received 17 inches of snow. The same storm produced 10.7 inches of snow at Midway Airport, Chicago, Illinois; a new single storm snowfall record for April. Winds gusting to 40 to 55 m.p.h. filled the air with snow, reducing the visibility, and drifting the snow badly. Transportation came to a standstill.

This storm developed exceptional low pressures. At midnight April 2, the pressure at the center had dropped to 971 mbs. (28.67 inches). Buffalo, New York, registered 28.86 inches at noon, April 2; the lowest pressure in April in 100 years of records. Washington, D. C., registered 28.99 inches, setting a new record-low sea-level pressure for the month of April. The previous low record was 29.09 inches which occurred on April 13, 1961. The big storm pounded the Northeast all day, April 2, with gusts ranging from 50 to 70 m.p.h. or higher as the snow and rain continued. At Grandfather Mountain in North Carolina, the gusts reached 115 m.p.h. Six to 12 inches of snow fell in northern New England, accompanied by strong winds, damaging trees, and utility lines. Heavy rains followed the snowstorm, causing washouts and local flooding. The resulting slush made roads treacherous. Some schools were closed. The strong winds caused widespread damage, particularly to mobile homes and buildings under construction, from Ohio to New England, and southward to North Carolina.

Washing rains, damaging winds, hail, and a few tornadoes also occurred in the Deep South from Mississippi to Georgia early in April.

The second week of April was not so stormy as the first week. Generous rains fell along the Washington

coast, with totals on the Olympic Peninsula ranging from 4 to 9 inches. Heavy showers fell in southern Texas on the 9th and moved to the Deep South on the 10th. Blustery winds raised clouds of dust in parts of the Dakotas and Nebraska on the 7th and from Nebraska to New Mexico late in the second week of April. Snow and cold rain, accompanied by strong northerly winds, reduced the visibility to zero along the South Dakota-Nebraska border on April 11. By noon, April 13, snow at Aberdeen, South Dakota, had accumulated to 17 inches. Two feet lay on the ground at Chamberlain, South Dakota. As this storm moved eastward, another storm dumped heavy snow in the Oregon Cascades and in the Sierras in northern California. Strong winds kicked up clouds of dust in the Great Basin. Milford, Utah, measured gusts of 72 m.p.h. By April 14, this storm was causing heavy snow in the central Rocky Mountains. Snow accumulated to 10 inches at Rapid City, South Dakota, by the morning of the 14th. By the 15th, 18 inches of snow lay on the ground at Minot, North Dakota. Another storm dumped 17.7 inches of snow at Rapid City on the 17th and 18th. Meanwhile, killer tornadoes occurred in the South. Tornadoes in the Texas Panhandle on the 17th and 18th killed 22 persons and injured 200 others. On the 19th, a tornado ripped through Corinth, Miss., killing 4 persons, injuring 78, and destroying or damaging dozens of dwellings. Other tornadoes occurred in Missouri, Arkansas, Louisiana, Illinois, Kentucky, and Tennessee.

A snowstorm developed over southern Nevada at the end of the third week of April. It dumped 8 inches of snow at Austin, Nevada, moved across Colorado to the central Great Plains, intensified, and caused a variety of miserable weather, including heavy snow, thunderstorms, hail, gales, and blowing dust. Heavy rains on the evening of the 23d caused flooding in the southern two-thirds of Ohio, and brought some streams in Kentucky to near bankfull. Thunderstorms in Kentucky caused widespread wind damage on the 19th. In the Northeast, the generous rains ended a 2-week dry spell.

The last few days of April brought heavy snow in northeastern Utah (over 19 inches at Salt Lake City), thick blowing dust in the southern Rocky Mountains, and much violent weather in a 12-State area from Minnesota to Ohio and southward to Texas.

April rainfall totals ranged widely from no rain, or only light sprinkles, in parts of southern California and Arizona and parts of the Rio Grande Valley, to over 8 inches in the Olympic Peninsula, central Arkansas, eastern Kentucky, and a large area extending from east-central Missouri to southern Indiana. Most of the eastern-half of the Nation received more than 2 inches of rain in April.

OBSERVED EXTREMES OF TEMPERATURE AND PRECIPITATION -- BY STATES

APRIL 1970

| STATE | Temperature | | | | | | Precipitation | | | |
|----------------|-------------------------|---------------|------|-----------------------------|--------------|------|-------------------------|-----------------|------------------------|--------------|
| | Monthly extremes | | | | | | Monthly extremes | | | |
| | Station | Highest
°F | Date | Station | Lowest
°F | Date | Station | Greatest
In. | Station | Least
In. |
| Alabama | Brewton 3 SSE | 94 | 29 | 2 Stations | 25 | 3 | Red Bay | 11.75 | Ozark 6 NNW | 0.76 |
| Alaska | 2 Stations | 64 | 25+ | Kobuk | -37 | 3 | Cordova-Klam | 24.63 | 2 Stations | .00 |
| Arizona | Cortaro 3 SW | 99 | 6 | Hasley Lake | -4 | 2 | Lukachukai | 3.50 | 22 Stations | .00 |
| Arkansas | 2 Stations | 90 | 28 | Gilbert | 24 | 3 | Little Rock Filt Plant | 11.38 | Berryville 4 NW | 3.46 |
| California | 2 Stations | 99 | 11+ | White Mountain 2 | -30 | 27 | Klamath | 5.00 | 55 Stations | .00 |
| Colorado | 2 Stations | 87 | 26 | Fraser | -30 | 4 | Bonham Reservoir | 4.60 | Saguache | .10 |
| Connecticut | Hartford WBAP | 84 | 28 | Coventry | 4 | 1 | Stafford Springs 2 | 5.20 | Cream Hill | 2.83 |
| Delaware | Newark University Farm | 84 | 29 | Newark University Farm | 26 | 6 | Wilmington Porter Resrv | 5.90 | Selbyville | 3.83 |
| Florida | 4 Stations | 95 | 30+ | 3 Stations | 37 | 9+ | Alexander Springs | 5.00 | 12 Stations | .00 |
| Georgia | 2 Stations | 96 | 30+ | Cornelia | 25 | 3 | La Fayette | 8.65 | Savannah Beach | .59 |
| Hawaii | 2 Stations | 89 | 26+ | Mauna Loa Slope Obs, Hawaii | 28 | 29+ | Waikamoi Dam 336, Maui | 50.48 | 2 Stations, Molokai | .00 |
| Idaho | 3 Stations | 83 | 7+ | Island Park Dam | -16 | 1 | Fenn Ranger Sta | 5.67 | Challis | .15 |
| Illinois | 4 Stations | 91 | 29+ | Danville | 21 | 5 | Vandalia FAA AP | 10.60 | Galena | 2.19 |
| Indiana | 2 Stations | 89 | 30 | Delphi 3 NNE | 17 | 5 | Tell City Power Plant | 14.12 | Albion 5 E | 3.73 |
| Iowa | Marshalltown | 93 | 28 | Bedford | 9 | 2 | Keokuk Lock and Dam 19 | 5.68 | Primghar | .92 |
| Kansas | 2 Stations | 93 | 28+ | Horton | 10 | 2 | Wellington | 9.75 | Atwood 12 SSE | .69 |
| Kentucky | Pikeville | 93 | 30 | Falmouth 5 WNW | 18 | 5 | Addison Dam 45 | 16.87 | Pikeville | 3.89 |
| Louisiana | 2 Stations | 92 | 30+ | 3 Stations | 29 | 3 | Bodcaw Fire Tower | 7.20 | Houma | .42 |
| Maine | 2 Stations | 84 | 28+ | 2 Stations | -6 | 6 | Machias | 6.31 | Middle Dam | 1.63 |
| Maryland | Cumberland | 90 | 30+ | Bittinger 2 NW | 19 | 5 | Suitland | 6.80 | Assateague State Park | 2.99 |
| Massachusetts | Chester 2 | 88 | 28 | East Brimfield Dam | 5 | 1 | Cummington Hill | 5.49 | Nantucket FAA AP | 2.06 |
| Michigan | 2 Stations | 90 | 29 | Herman | 1 | 11 | Niles | 6.20 | Cheboygan RR Light Sta | .80 |
| Minnesota | 3 Stations | 91 | 29+ | Baudette 21 SSE | -15 | 1 | Park Rapids | 5.85 | Hibbing FAA AP | 1.20 |
| Mississippi | Eupora 1 E | 97 | 30 | 2 Stations | 28 | 3 | Ripley | 12.63 | State Line | 1.19 |
| Missouri | St Joseph 4 WNW | 96 | 28 | 5 Stations | 12 | 2 | Macon | 10.57 | Ozark Beach | 1.93 |
| Montana | Terry | 84 | 7 | Cooke City | -17 | 1 | Red Lodge | 6.63 | Eureka Ranger Sta | .11 |
| Nevada | Prater City | 92 | 28+ | Agate 3 E | 8 | 3 | Butte | 5.67 | Eustis 2 NW | .59 |
| Nevada | Sunrise Manor Las Vegas | 91 | 10 | 2 Stations | 2 | 16+ | Lamoille Power House | 2.70 | Searchlight | .00 |
| New Hampshire | Concord WBAP | 87 | 28 | First Conn Lake | -5 | 6 | Mount Washington | 8.43 | Jefferson 5 SSW | 1.89 |
| New Jersey | 4 Stations | 86 | 30+ | Sussex 1 SE | 10 | 1 | Mays Landing 1 W | 8.69 | Jersey City | 1.49 |
| New Mexico | 2 Stations | 90 | 27+ | Eagle Nest | -11 | 2 | Vermejo Park | 2.99 | 28 Stations | .00 |
| New York | Rochester WBAP | 93 | 30 | 3 Stations | 5 | 11+ | Piseco | 6.19 | Roxbury | 1.27 |
| North Carolina | Hamlet | 94 | 23 | Grandfather Mountain | 18 | 3 | Tapoco | 7.52 | Whiteville 7 NW | 1.11 |
| North Dakota | Breien | 86 | 7 | 2 Stations | -12 | 1 | Selfridge | 7.89 | McLeod 3 E | .64 |
| Ohio | Ironton | 93 | 30 | Tom Jenkins Dam | 14 | 6 | Williamsburg | 8.89 | Painesville 4 NW | 1.78 |
| Oklahoma | Mangum Research Sta | 95 | 27 | Hooker 1 N | 16 | 2 | Fanshawe | 9.04 | Hooker 1 N | .50 |
| Oregon | 2 Stations | 80 | 6 | Hampton | 2 | 20 | Nehalem 9 NE | 12.89 | 2 Stations | T |
| Pennsylvania | 5 Stations | 90 | 30 | 2 Stations | 12 | 11+ | Onadus Ford | 7.10 | Donora | 1.90 |
| Puerto Rico | 2 Stations | 95 | 20+ | Adjuntas Substation | 49 | 8 | Palmarito | 6.83 | Ensenada | .04 |
| Rhode Island | Greenville | 83 | 28 | Kingston | 15 | 1 | Kingston | 4.68 | Block Island WBAP | 2.99 |
| South Carolina | 3 Stations | 94 | 30+ | 2 Stations | 27 | 3 | Caesars Head 1 NE | 5.14 | 2 Stations | .47 |
| South Dakota | 3 Stations | 88 | 26+ | Waubay Natl Wildlife | 1 | 1 | Deadwood | 6.91 | Castlewood | 1.32 |
| Tennessee | 2 Stations | 91 | 30 | Pikeville | 18 | 3 | Ashwood | 12.30 | Mountain City No 2 | 4.68 |
| Texas | 2 Stations | 103 | 29+ | 2 Stations | 19 | 2 | Gunter | 8.91 | 17 Stations | .00 |
| Utah | Saint George | 84 | 10 | Silver Lake Brighton | -6 | 1 | Silver Lake Brighton | 5.84 | Navajo Mountain | T |
| Vermont | Bellows Falls | 86 | 29 | 2 Stations | 4 | 6 | Ball Mountain Dam | 5.44 | Saint Albans | 2.29 |
| Virginia | Covington Filt Plant | 91 | 29 | 2 Stations | 18 | 8 | Pennington Gap | 9.57 | Meisonia | 1.24 |
| Washington | Priest Rapids Dam | 72 | 30 | Rainier Paradise RS | 11 | 27 | Clearwater | 16.78 | Wilbur | .10 |
| West Virginia | Ripley | 92 | 30 | Franklin 2 NE | 12 | 3 | Alpena 1 NW | 6.62 | Mathias | 2.39 |
| Wisconsin | Gurney | 91 | 29 | 2 Stations | -4 | 2 | Racine | 4.12 | Rest Lake | .54 |
| Wyoming | Torrington Exp Farm | 81 | 26 | 2 Stations | -13 | 16+ | Hat Creek 5 E | 3.76 | La Barge 4 WNW | T |

* All stations are located within the State.

Note: Dates in the above table apply to the period 24 hours prior to time of observation. In some cases the actual occurrence is on the calendar date preceding that shown. (See individual Climatological Data for times of observations).

1. All data are based on the official records of the National Weather Service, using a ratio of 1 inch water equivalent to every 10 inches of snowfall.

APRIL 1970

See footnotes at end of table

CLIMATOLOGICAL DATA

ENGLISH UNITS

APRIL 1970

| State and Station | Elevation (ground) | Pressure | | Temperature | | | | | | | | | | Precipitation | | | | Wind | | | No. of days
(sunrise to
sunset) | Sky cover, tenths
(sunrise to sunset) | | | | | | | | | |
|---------------------|--------------------|--------------|-----------|-----------------|-----------------|---------|-----------------------|---------|--------|------|---------------------|---------------------|----------------------|--------------------|-------|-----------------|---------------------|---------------------------|-------------|-------------|---------------------------------------|--|-------|-----------|----|----|-----|-----|-----|------|-----|
| | | Station
Q | Sea level | Average maximum | Average minimum | Average | Departure from normal | Highest | Lowest | Date | No. of days | | Greatest in 24 hours | With thunderstorms | Total | Resultant speed | Resultant direction | Fastest mile | | | | | | | | | | | | | |
| | | | | | | | | | | | Max. 90° F or above | Min. 32° F or below | | | | | | Average relative humidity | No. of days | Snow, Sleet | | | Speed | Direction | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | F. | F. | F. | In. | In. | Mph. | |
| CALIFORNIA | | Mb. | Mb. | F. | F. | F. | F. | F. | F. | F. | F. | In. | In. | In. | In. | Mph. | Mph. | Direction | Date | Clear 0-3 | Cloudy, 4-7 | | | | | | | | | | |
| STOCKTON | 22 | 1017.6 | 1018.6 | 71 | 42 | 56.4 | - 3.3 | 82 | 30 | 34 | 15 | 0 | 0 | 38 | 57 | 0.95 | - 0.19 | 0.53 | 4 | 2 | T | 0 | 7.3 | 29 | 26 | 27 | 13 | 14 | 8 | 8 | 4.2 |
| COLORADO | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ALAMOSA | 7536 | 767.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| COLORADO SPRINGS | 6145 | 805.6 | 1010.7 | 56 | 29 | 42.6 | - 3.0 | 77 | 26 | 13 | 4 | 0 | 30 | 18 | 44 | 0.91 | - 0.40 | 0.77 | 3 | 0 | 8.7 | 4 | 2.3 | 31 | 41 | 19 | 14 | 16 | 6 | 8 | 4.2 |
| DENVER | 5283 | 831.0 | 1009.5 | 58 | 29 | 43.7 | - 2.7 | 80 | 26 | 17 | 4 | 0 | 22 | 22 | 50 | 0.97 | - 1.14 | 0.54 | 6 | 0 | 4.7 | 4 | 1.8 | 27 | 37 | SW | 14 | 8 | 14 | 8 | 5.5 |
| GRAND JUNCTION | 4843 | 848.3 | 1011.7 | 60 | 32 | 45.9 | - 6.4 | 76 | 26 | 21 | 1 | 0 | 18 | 19 | 39 | 0.76 | 0.01 | 0.29 | 9 | 1 | 1.2 | 4 | 1.1 | 17 | 42 | SW | 27 | 9 | 18 | 13 | 5.9 |
| PUEBLO | 4684 | 850.3 | 1008.9 | 66 | 36 | 50.8 | 0.1 | 84 | 27+ | 23 | 2 | 0 | 10 | 23 | 40 | 1.32 | 0.14 | 0.88 | 4 | 0 | 5.6 | 3 | 4.1 | 29 | 49 | NW | 11 | 15 | 9 | 6 | 3.9 |
| CONNECTICUT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BRIDGEPORT | 7 | 1015.2 | 1016.0 | 58 | 41 | 49.3 | 1.3 | 76 | 26 | 21 | 1 | 0 | 4 | | | 3.90 | 0.10 | 2.54 | 8 | 2 | 0.7 | 4 | 3.2 | 32 | 51 | 28 | 3+ | 11 | 7 | 12 | 5.4 |
| HARTFORD | 169 | 1008.5 | 1015.2 | 61 | 37 | 49.0 | 0.5 | 84 | 28 | 9 | 1 | 0 | 7 | 31 | 54 | 4.12 | 0.39 | 2.89 | 7 | 0 | 2.0 | 7 | 3.8 | 28 | 42 | NW | 3 | 6 | 16 | 8 | 6.0 |
| DELAWARE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| WILMINGTON | 74 | 1013.2 | 1016.2 | 62 | 42 | 51.9 | - 0.2 | 82 | 29 | 30 | 11+ | 0 | 5 | 39 | 66 | 5.56 | 2.23 | 2.39 | 10 | 4 | 0.0 | 0 | 1.0 | 30 | 39 | 2 | 14 | 10 | 3 | 17 | 6.5 |
| DIST. OF COLUMBIA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| WASHINGTON DULLES | 290 | 1004.4 | 1016.1 | 65 | 40 | 52.5 | - 0.4 | 84 | 30 | 24 | 8 | 0 | 8 | 41 | 71 | 4.19 | | 2.18 | 10 | 5 | T | 0 | 1.3 | 29 | 35 | 29 | 2 | 8 | 7 | 15 | 6.6 |
| WASHINGTON NATIONAL | 10 | 1013.5 | 1016.1 | 66 | 45 | 55.3 | - 0.4 | 83 | 29+ | 34 | 11+ | 0 | 0 | 41 | 64 | 5.35 | 2.20 | 3.08 | 10 | 4 | 0.0 | 0 | 1.4 | 33 | 34 | SW | 9+ | 7 | 7 | 16 | 6.7 |
| FLORIDA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| APALACHICOLA U | 13 | 1016.6 | 1017.9 | 77 | 65 | 70.8 | 3.3 | 87 | 30 | 51 | 3 | 0 | 0 | 62 | 71 | 2.03 | - 2.27 | 1.39 | 5 | 1 | 0.0 | 0 | 2.3 | 13 | 30 | E | 11 | 8 | 10 | 12 | 6.1 |
| DAYTONA BEACH | 31 | 1016.6 | 1017.4 | 82 | 64 | 73.1 | 4.2 | 91 | 20 | 54 | 7 | 4 | 0 | 62 | 71 | 2.08 | - 0.89 | 1.18 | 5 | 2 | 0.0 | 0 | 2.3 | 13 | 30 | E | 11 | 8 | 10 | 12 | 6.1 |
| FORT MYERS | 15 | 1016.9 | 1017.5 | 82 | 62 | 71.7 | 3.0 | 87 | 30+ | 57 | 8 | 0 | 0 | 64 | 72 | T | - 2.64 | T | 0 | 0 | 0.0 | 0 | 2.1 | 16 | 23 | 21 | 2 | 12 | 12 | 13 | 6.6 |
| JACKSONVILLE | 24 | 1016.6 | 1017.5 | 82 | 62 | 71.7 | 3.0 | 92 | 29+ | 46 | 4 | 4 | 0 | 61 | 75 | 1.77 | - 1.78 | 0.67 | 6 | 2 | 0.0 | 0 | 3.3 | 19 | 36 | W | 2 | 5 | 10 | 15 | 6.9 |
| COLUMBUS | 365 | 1002.4 | | 80 | 56 | 67.6 | 3.9 | 92 | 30 | 36 | 3 | 0 | 53 | 64 | 72 | 0.11 | - 2.37 | 0.07 | 2 | 1 | 0.0 | 0 | 7.9 | 12 | 28 | SE | 24 | 12 | 10 | 8 | 4.6 |
| MACON | 354 | 1004.1 | 1016.9 | 81 | 55 | 67.8 | 2.2 | 94 | 23 | 39 | 8+ | 6 | 0 | 55 | 69 | 1.52 | - 2.23 | 0.60 | 10 | 3 | 0.0 | 0 | 1.9 | 22 | 38 | W | 2 | 7 | 8 | 15 | 6.5 |
| ROME | 637 | | | 76 | 50 | 63.1 | 3.3 | 91 | 30 | 29 | 3 | 1 | 2 | 56 | 69 | 6.05 | - 1.46 | 2.56 | 9 | T | 0 | 0 | 2.3 | 19 | 33 | W | 21 | 6 | 9 | 15 | 6.9 |
| SAVANNAH | 46 | 1015.2 | 1016.9 | 79 | 58 | 68.3 | 2.6 | 91 | 29 | 40 | 8+ | 2 | 0 | 55 | 69 | 0.95 | - 2.75 | 0.42 | 5 | 1 | 0.0 | 0 | 2.3 | 19 | 33 | W | 21 | 6 | 9 | 15 | 6.9 |
| GEORGIA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ATLANTA | 802 | 987.1 | 1016.1 | 75 | 53 | 63.7 | 2.6 | 89 | 30+ | 34 | 3 | 0 | 0 | 49 | 64 | 1.70 | - 2.69 | 0.55 | 9 | 2 | 0.0 | 0 | 2.4 | 24 | 25 | 19 | 2 | 6 | 9 | 15 | 6.5 |
| ATLANTA | 1010 | 979.7 | | 76 | 53 | 64.4 | 4.2 | 88 | 30 | 31 | 3 | 0 | 1 | 49 | 64 | 3.24 | - 1.23 | 1.06 | 10 | 5 | 0.0 | 0 | 2.2 | 24 | 33 | SE | 19 | 7 | 16 | 8 | 6.4 |
| AUGUSTA | 136 | 1011.2 | 1016.3 | 78 | 50 | 64.1 | 0.9 | 92 | 30+ | 33 | 8+ | 4 | 0 | 51 | 68 | 0.60 | - 2.96 | 0.21 | 10 | 3 | 0.0 | 0 | 3.0 | 21 | 23 | 30 | 24+ | 6 | 7 | 17 | 6.7 |
| COLUMBUS | 365 | 1002.4 | | 80 | 56 | 67.6 | 3.9 | 92 | 30 | 36 | 3 | 0 | 53 | 64 | 72 | 2.91 | - 1.68 | 0.85 | 10 | 4 | 0.0 | 0 | 1.4 | 20 | 35 | 25 | 2 | 6 | 9 | 15 | 6.8 |
| MACON | 354 | 1004.1 | 1016.9 | 81 | 55 | 67.8 | 2.2 | 94 | 23 | 39 | 8+ | 6 | 0 | 55 | 69 | 1.52 | - 2.23 | 0.60 | 10 | 3 | 0.0 | 0 | 1.9 | 22 | 38 | W | 2 | 7 | 8 | 15 | 6.5 |
| ROME | 637 | | | 76 | 50 | 63.1 | 3.3 | 91 | 30 | 29 | 3 | 1 | 2 | 56 | 69 | 6.05 | - 1.46 | 2.56 | 9 | T | 0 | 0 | 2.3 | 19 | 33 | W | 21 | 6 | 9 | 15 | 6.9 |
| SAVANNAH | 46 | 1015.2 | 1016.9 | 79 | 58 | 68.3 | 2.6 | 91 | 29 | 40 | 8+ | 2 | 0 | 55 | 69 | 0.95 | - 2.75 | 0.42 | 5 | 1 | 0.0 | 0 | 2.3 | 19 | 33 | W | 21 | 6 | 9 | 15 | 6.9 |
| HAWAII | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HILO | 27 | 1017.6 | 1018.9 | 80 | 65 | 72.4 | 0.8 | 83 | 20+ | 61 | 28+ | 0 | 0 | 65 | 80 | 28.60 | 16.68 | 8.31 | 30 | 1 | 0.0 | 0 | 1.1 | 8 | 18 | NE | 26 | 0 | 6 | 24 | 8.2 |
| HONOLULU | 7 | 1018.0 | 1018.6 | 85 | 72 | 78.3 | 4.1 | 86 | 30+ | 69 | 8 | 0 | 0 | 63 | 63 | 0.74 | - 0.57 | 0.27 | 14 | 1 | 0.0 | 0 | 14.5 | 5 | 37 | NE | 23 | 9 | 19 | 2 | 4.8 |
| KAHULUI | 48 | 1015.9 | 1018.2 | 83 | 67 | 75.2 | 1.8 | 88 | 20 | 59 | 8 | 0 | 0 | 64 | 71 | 1.37 | - 0.07 | 0.33 | 14 | 0 | 0.0 | 0 | 12.6 | 5 | 32 | E | 16 | 9 | 16 | 5 | 5.2 |
| LAHUE | 103 | 1014.9 | 1020.2 | 80 | 71 | 75.6 | 3.1 | 82 | 11+ | 68 | 24+ | 0 | 0 | 65 | 73 | 2.83 | - 0.51 | 1.04 | 22 | 0 | 0.0 | 0 | 14.0 | 5 | 29 | E | 24 | 2 | 20 | 8 | 6.6 |
| IDAHO | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BOISE | 2838 | 914.3 | 1015.5 | 54 | 33 | 43.8 | - 6.6 | 75 | 6 | 21 | 3 | 0 | 12 | 25 | 49 | 0.93 | - 0.23 | 0.47 | 9 | 1 | 1.1 | T | 4.8 | 31 | 42 | NW | 19 | 4 | 12 | 14 | 6.9 |
| LEWISTON | 1413 | | | 57 | 36 | 46.2 | - 4.6 | 69 | 6 | 27 | 13 | 0 | 7 | 25 | 49 | 1.03 | - 0.11 | 0.54 | 9 | T | 1 | T | 4.8 | 31 | 42 | NW | 19 | 4 | 12 | 14 | 6.9 |
| POCATELLO | 4454 | 860.1 | 1014.2 | 49 | 29 | 39.0 | - 7.5 | 71 | 6 | 15 | 3 | 0 | 23 | 21 | 52 | 1.28 | 0.22 | 0.27 | 11 | 1 | 11.5 | 2 | 6.8 | 23 | 42 | SW | 7 | 3 | 9 | 18 | 7.6 |
| ILLINOIS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CAIRO | 314 | | | 71 | 53 | 62.1 | 2.7 | 84 | 30 | 39 | 2 | 0 | 0 | 40 | 68 | 6.82 | 2.75 | 2.34 | 10 | 0 | 0.0 | 0 | 2.7 | 5 | 42 | SW | 20 | 5 | 14 | 11 | 6.4 |
| CHICAGO O HARE | 658 | | | 60 | 43 | 51.7 | 4.5 | 86 | 29 | 29 | 4 | 0 | 6 | 37 | 61 | 4.29 | 1.35 | 0.93 | 13 | 6 | 7.2 | 6 | 3.1 | 19 | 36 | W | 22 | 8 | 15 | 6.3 | |
| CHICAGO MIDWAY | 607 | 990.2 | 1012.8 | 61 | 43 | 52.2 | 3.2 | 88 | 29 | 31 | 5 | 0 | 5 | 37 | 61 | 7.07 | 4.03 | 2.49 | 15 | 10 | 10.7 | 7 | 2.8 | 21 | 47 | E | 19 | 7 | 11 | 12 | 5.9 |
| MOLINE | 582 | 990.5 | 1012.2 | 62 | 42 | 51.8 | 1.8 | 91 | 29 | 28 | 7+ | 1 | 8 | 40 | 68 | 4.66 | 1.49 | 1.43 | 14 | 8 | 8.3 | 4 | 2.8 | 21 | 47 | E | 19 | 7 | 11 | 12 | 5.9 |

See footnotes at end of table

CLIMATOLOGICAL DATA

ENGLISH UNITS

APRIL 1970

| State and Station | Elevation (ground) | Pressure | | Temperature | | | | | | | | | | Precipitation | | | | | Wind | | | | No. of days (sunrise to sunset) | | Possible sunshine | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | | Station | Sea level | Average maximum | Average minimum | Average | Departure from normal | Highest | Date | Lowest | No. of days | | Average relative humidity | Total | Departure from normal | Greatest in 24 hours | No. of days | Snow, Sleet | | Resultant speed | Resultant direction | Speed | | | | Direction | Date | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | Max. 90° F. or above | Min. 32° F. or below | | | | | | With thunderstorms | Maximum depth on ground | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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See footnotes at end of table

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ENGLISH UNITS

APRIL 1970

| State and Station | Elevation (ground) | Pressure | | Temperature | | | | | | | | | | Precipitation | | | | Wind | | | | No. of days (sunrise to sunset) | | | Possible sunshine (sunrise to sunset) | % | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------|--------------------|-----------|-----------|-----------------|-----|-----------------|-----|---------|-----|-----------------------|-----|---------|-----|---------------|-----|------|-----|-------------|-----|-------------------|-----|---------------------------------|-----|-------|---------------------------------------|---|-----------------------|-----|----------------------|-----|-------------|-----|-------------|-----|-----------------|---------------------|--------------|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|
| | | Station Q | Sea level | Average maximum | | Average minimum | | Average | | Departure from normal | | Highest | | Lowest | | Date | | No. of days | | Average dew point | | Average relative humidity | | Total | | | Departure from normal | | Greatest in 24 hours | | No. of days | | Snow, Sleet | | Resultant speed | Resultant direction | Fastest mile | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | | | | F. | °F. | F. | °F. | F. | °F. | F. | °F. | | | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. | °F. | F. |

CLIMATOLOGICAL DATA

ENGLISH UNITS

APRIL 1970.

| State and Station | Elevation (ground) | Pressure | | Temperature | | | | | | | | | | Precipitation | | | | | Wind | | | No. of days
(sunrise to sunset) | Possible sunshine | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------|--------------------|----------|-----------|-----------------|----|-----------------|----|---------|----|-----------------------|----|---------|----|---------------|----|------|----|-------------|------|---------------------------|----|------------------------------------|-------------------|-------|-----------------------|----|----------------------|----|-------------|----|-------------|----|--------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| | | Station | Sea level | Average maximum | | Average minimum | | Average | | Departure from normal | | Highest | | Lowest | | Date | | No. of days | | Average relative humidity | | | | Total | Departure from normal | | Greatest in 24 hours | | No. of days | | Snow, Sleet | | Fastest mile | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | | | | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. |

ENGLISH UNITS

See footnotes at end of table

172

CLIMATOLOGICAL DATA

ENGLISH UNITS

APRIL 1970

| State and Station | Pressure | | Temperature | | | | | | | | | | Precipitation | | | | | Wind | | | | | No. of days
(sunrise to
sunset) | Sky cover, tenths
(sunrise to sunset) | | | | | | | | | | |
|------------------------------|--------------------|--------------|-------------|-----------------|-----------------|------------------------|---------|------|--------|----------------|----------------------|---------------------------|---------------|-----------------------|----------------------|-----|-------------|-----------------|---------------------|--------------|-----|--------|---------------------------------------|--|--------|-----------|------|------------|--------------------|--------------|----------------------|-----------------|--------------------|----------------------------|
| | Elevation (ground) | Station
Ø | Sea level | Average maximum | Average minimum | Average
from normal | Highest | Date | Lowest | No. of
days | | Average relative humidity | Total | Departure from normal | No. of
days | | Snow, Sleet | Resistant speed | Resistant direction | Fastest mile | | | | | | | | | | | | | | |
| | | | | | | | | | | Date | Max. 90° F. or above | | | | Min. 32° F. or below | In. | | | | F. | In. | M.p.h. | | | M.p.h. | Direction | Date | Clear, 0-3 | Partly cloudy, 4-7 | Cloudy, 8-10 | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Greatest in 24 hours | 01 inch or more | With thunderstorms | Maximum depth
on ground |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fl. | Mb. | 1014.4 | F. | 32 | 42.6 | 1.4 | F. | 30+ | F. | 17 | 6 | 0 | 17 | 29 | 62 | % | In. | 2.4 | 2 | 2.3 | 25 | 35 | 5 | 23 | 7 | 9 | 14 | 6.4 | 71 | | | | | |
| VERMONT
BURLINGTON | 332 | 1001.7 | 53 | 32 | 42.6 | 1.4 | F. | 80 | 30+ | 17 | 6 | 0 | 17 | 29 | 62 | | In. | 1.22 | 10 | 1 | 2.4 | 2 | 2.3 | 25 | 35 | 5 | 23 | 7 | 9 | 14 | 6.4 | 71 | | |
| VIRGINIA
LYNCHBURG | 916 | 1014.9 | 68 | 44 | 56.0 | -0.2 | 84 | 29 | 24 | 24 | 8 | 0 | 3 | 44 | 67 | | In. | 1.43 | 12 | 4 | 0 | 0 | 0.5 | 26 | 47 | SW | 2 | 7 | 9 | 14 | 6.2 | 57 | | |
| NORFOLK | 22 | 1014.9 | 64 | 49 | 56.7 | -1.3 | 85 | 21 | 36 | 1 | 0 | 0 | 0 | 44 | 67 | | In. | 0.03 | 10 | 4 | 0 | 0 | 0 | 0.8 | 27 | SW | 2 | 7 | 8 | 15 | 6.7 | 63 | | |
| RICHMOND | 164 | 1009.8 | 71 | 46 | 58.2 | 0.1 | 88 | 24+ | 30 | 8 | 0 | 1 | 43 | 62 | | In. | 0.31 | 10 | 4 | 0 | 0 | 0 | 0.8 | 27 | 36 | W | 2 | 8 | 8 | 14 | 6.3 | 60 | | |
| ROANOKE | 1149 | 973.6 | 68 | 45 | 56.5 | 0.1 | 87 | 29 | 26 | 8 | 0 | 2 | 39 | 57 | | In. | 1.23 | 12 | 4 | 0.2 | 0 | 2.7 | 28 | 44 | 26 | 2 | 8 | 9 | 13 | 6.1 | | | | |
| WALLOPS ISLAND | 9 | | 60 | 46 | 52.9 | | 82 | 9 | 34 | 1 | 0 | 0 | | | | In. | 0.94 | 14 | 0 | 0.0 | 0 | 62Y | 28 | 62Y | NW | 9 | 8 | 9 | 13 | 6.1 | | | | |
| WASHINGTON
OLYMPIA | 195 | 1011.9 | 56 | 35 | 45.1 | -4.9 | 66 | 17 | 25 | 14 | 0 | 14 | 36 | 74 | | In. | 1.44 | 16 | 2 | 0.1 | 0 | 6.5 | 21 | 36 | 19 | 9 | 2 | 9 | 19 | 7.7 | | | | |
| QUILLAYUTE | 179 | 1011.5 | 52 | 35 | 43.8 | -3.4 | 64 | 14 | 28 | 15+ | 0 | 12 | 39 | 83 | | In. | 0.96 | 19 | 0 | 0 | 0 | 3.1 | 24 | 32 | SW | 24 | 4 | 5 | 21 | 7.6 | 33 | | | |
| SEATTLE TACOMA | 400 | 1002.4 | 53 | 40 | 46.1 | -3.1 | 62 | 17 | 34 | 27 | 0 | 0 | 38 | 78 | | In. | 0.96 | 19 | 0 | 0 | 0 | 5.7 | 20 | 30 | SW | 24 | 3 | 7 | 20 | 7.6 | 33 | | | |
| SPOKANE | 2356 | 930.9 | 51 | 32 | 41.6 | -5.7 | 61 | 30+ | 25 | 27+ | 0 | 16 | 27 | 59 | | In. | 0.02 | 27 | 1 | 0.3 | 0 | 6.7 | 21 | 47 | SW | 24 | 2 | 10 | 38 | 7.7 | 38 | | | |
| STAMPEDE PASS R | 3958 | 878.4 | 35 | 27 | 30.9 | -5.6 | 43 | 17 | 19 | 7 | 0 | 28 | | | | In. | 0.99 | 23 | 107.2 | 145 | 0 | 107.2 | 29 | 30 | NW | 1 | 2 | 7 | 58 | 9.1 | 45 | | | |
| WALLA WALLA U | 949 | | 57 | 39 | 48.1 | -5.7 | 68 | 5 | 32 | 13 | 0 | 1 | 24 | 43 | | In. | 1.22 | 11 | 0 | 0 | 5.2 | 29 | 32 | 27 | 1 | 4 | 10 | 16 | 6.9 | | | | | |
| YAKIMA | 1052 | 978.3 | 60 | 32 | 46.2 | -4.3 | 69 | 30 | 24 | 3 | 0 | 17 | | | | In. | 0.31 | 2 | 0 | 0 | 0 | 5.2 | 29 | 32 | 27 | 1 | 4 | 10 | 16 | 6.9 | | | | |
| WEST INDIES
SAN JUAN P.R. | 13 | 1014.2 | 86 | 74 | 80.0 | 3.4 | 91 | 7 | 70 | 6 | 2 | 0 | 67 | 66 | | In. | 0.77 | 6 | 1 | 0 | 0 | 7.0 | 9 | 35 | E | 24 | 12 | 17 | 1 | 4.3 | 68 | | | |
| SWAN ISLAND | 28 | | 86 | 78 | 82.2 | 0.7 | 88 | 23+ | 75 | 9 | 0 | 0 | | | | In. | 0.14 | 7 | 0 | 0 | 0 | 7.0 | 9 | 35 | E | 24 | 15 | 9 | 6 | 4.4 | | | | |
| WEST VIRGINIA
BECKLEY | 2504 | 927.2 | 65 | 43 | 53.7 | 2.9 | 83 | 29 | 24 | 5 | 0 | 7 | 38 | 61 | | In. | 0.87 | 14 | 3 | 0.2 | 0 | 4.5 | 23 | 44 | 27 | 2 | 5 | 8 | 17 | 7.0 | | | | |
| CHARLESTON | 939 | 980.4 | 70 | 46 | 58.2 | 2.9 | 91 | 30 | 25 | 5 | 1 | 4 | 39 | 55 | | In. | 1.14 | 12 | 6 | 0 | 0 | 3.4 | 23 | 39 | 24 | 2 | 6 | 8 | 18 | 6.7 | | | | |
| ELKINS | 1948 | 943.1 | 64 | 35 | 49.6 | -0.6 | 83 | 30 | 17 | 11 | 0 | 13 | | | | In. | 1.85 | 14 | 8 | 0.7 | 0 | 2.9 | 22 | 35 | 24 | 2 | 6 | 9 | 17 | 7.2 | | | | |
| HUNTINGTON | 827 | 984.4 | 69 | 45 | 56.7 | 1.0 | 84 | 30 | 23 | 5 | 0 | 2 | 40 | 59 | | In. | 0.01 | 14 | 8 | 0 | 0 | 2.9 | 22 | 35 | 24 | 2 | 6 | 8 | 16 | 6.8 | | | | |
| PARKERSBURG U | 615 | | 68 | 45 | 56.4 | 2.3 | 91 | 30 | 25 | 5 | 1 | 3 | | | | In. | 1.65 | 12 | 0 | 0 | 0 | 2.9 | 22 | 35 | 24 | 2 | 6 | 8 | 16 | 6.8 | 51 | | | |
| WISCONSIN
GREEN BAY | 682 | 986.5 | 57 | 37 | 46.8 | 3.6 | 84 | 29 | 22 | 10 | 0 | 11 | 32 | 59 | | In. | 0.94 | 8 | 2 | 0 | 0 | 1.6 | 24 | 41 | SW | 23 | 8 | 9 | 13 | 6.4 | 57 | | | |
| LA CROSSE | 651 | 986.8 | 60 | 39 | 49.1 | 2.1 | 90 | 29 | 22 | 2 | 1 | 7 | 35 | 64 | | In. | 1.00 | 11 | 1 | 0 | 0 | 2.3 | 22 | 38 | SE | 24 | 10 | 7 | 13 | 5.9 | 57 | | | |
| MADISON | 858 | 980.4 | 60 | 36 | 47.9 | 3.5 | 85 | 29 | 19 | 10 | 0 | 13 | 34 | 62 | | In. | 1.00 | 12 | 1 | 1.9 | 2 | 2.0 | 22 | 38 | SE | 24 | 10 | 7 | 13 | 5.9 | 57 | | | |
| MILWAUKEE | 672 | 987.1 | 55 | 37 | 46.2 | 2.6 | 81 | 29 | 24 | 7 | 0 | 10 | 35 | 69 | | In. | 1.00 | 12 | 1 | 5.2 | 5 | 2.8 | 24 | 40 | SW | 20 | 11 | 4 | 15 | 6.1 | 53 | | | |
| WYOMING
CASPER | 5338 | 832.4 | 49 | 28 | 38.2 | -4.9 | 70 | 26 | 5 | 1 | 0 | 24 | 24 | 63 | | In. | 0.72 | 12 | 2 | 10.9 | 2 | 5.7 | 27 | 40 | 26 | 24 | 4 | 10 | 16 | 7.2 | | | | |
| CHEYENNE | 6126 | 806.3 | 49 | 26 | 37.8 | -4.8 | 72 | 26 | 3 | 1 | 0 | 24 | 19 | 52 | | In. | 0.54 | 7 | 0 | 8.3 | 9 | 7.4 | 30 | 49 | W | 1 | 6 | 14 | 10 | 5.7 | 73 | | | |
| LANDER | 5563 | 823.9 | 47 | 26 | 36.6 | -6.4 | 67 | 26 | 6 | 1 | 0 | 25 | 22 | 61 | | In. | 0.66 | 15 | 1 | 37.2 | 12 | 2.0 | 25 | 50 | S | 26 | 2 | 7 | 21 | 8.2 | 53 | | | |
| SHERIDAN | 3964 | 874.7 | 49 | 28 | 38.4 | -5.2 | 73 | 6 | 17 | 1 | 0 | 25 | 24 | 61 | | In. | 0.78 | 12 | 0 | 9.4 | 3 | 6.0 | 32 | 40 | NW | 29 | 2 | 9 | 19 | 8.0 | 51 | | | |

Data from airport unless otherwise specified. U indicates Urban, R indicates Rural, sites.

Precipitation data in column headed "Greatest in 24 hours" are computed on a 24-hour basis without regard to calendar day - data may include precipitation with a measurable amount from the last day of the previous month or the first day of the following month.

Wind directions under resultant direction are in tens of degrees.

Value entered in column "Fastest Mile" is the highest observed 1-minute wind speed when the direction is in tens of degrees. These stations are not equipped with a recording anemometer from which "Fastest Mile" data can be evaluated.

B Number of days maximum 70°F. or above for Alaskan Stations.

Y Peak (fast).

+ And also on an earlier date or dates.

Ø Station pressures apply to elevations shown in the "Elevations - Station Pressure" table of the annual issue of this publication.

METRIC UNITS

197.1

See footnotes at end of table

METRIC UNITS

APR 11 1970

See footnotes at end of table

CLIMATOLOGICAL DATA

METRIC UNITS

APRIL, 1970

| State and Station | Elevation (ground) | | Pressure | | Temperature | | | | No. of days | | | | Precipitation | | | | Wind | | | | No. of days | | No. of days (sunrise to sunset) | | | | | | | | | |
|-------------------|--------------------|---------|-----------|------|-------------|-----------------|-----------------|---------|-----------------------|---------|------|--------|---------------|--------------------|-------------------|-------|-----------------------|----------------------|---------------|-------------|--------------------|------|---------------------------------|-------|-------------------------|----------------|--------------------|-------|-----------|------|-----|-----|
| | M | Station | Sea level | C | F | Average maximum | Average minimum | Average | Departure from normal | Highest | Date | Lowest | Date | No. of days | | Total | Departure from normal | Greatest in 24 hours | 25 mm or more | No. of days | With thunderstorms | Snow | | Sleet | Maximum depth on ground | Residual speed | Residual direction | Speed | Direction | Date | | |
| | | | | | | | | | | | | | | Max 32.2° or above | Min 0° C or lower | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| INDIANA | 241 | 984.1 | 1014.2 | 15.6 | 5.0 | 10.2 | 0.6 | 28.9 | 29 | 3.9 | 5 | 0 | 7 | 3.9 | 6.9 | 16.0 | 80 | 4.0 | 17 | 5 | 79 | 76 | 1.2 | 23 | 22.4 | SW | 29 | 5 | 10 | 15 | 6.7 | |
| | 241 | 984.4 | 1013.5 | 18.9 | 6.7 | 12.8 | 2.4 | 31.7 | 30 | 3.3 | 5 | 0 | 5 | 5.0 | 6.4 | 16.6 | 71 | 4.3 | 14 | 8 | 5 | 1 | 0.9 | 18 | 19.7 | W | 15 | 9 | 13 | 6.5 | | |
| | 236 | 985.1 | 1013.3 | 14.4 | 4.4 | 9.3 | 0.7 | 26.7 | 29 | 3.9 | 7 | 0 | 9 | 3.9 | 7.1 | 13.8 | 47 | 5.5 | 14 | 8 | 2 | 1 | 152 | 1.0 | 15 | 13.4 | SW | 23 | 4 | 11 | 13 | 6.6 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| IOWA | 211 | 976.6 | 1011.6 | 16.7 | 5.0 | 10.9 | 0.4 | 31.1 | 28 | 3.0 | 2 | 0 | 5 | 4.4 | 6.4 | 13.6 | 49 | 3.9 | 13 | 4 | 229 | 203 | 1.3 | 21 | 15.6 | 13 | 18 | 8 | 10 | 12 | 5.8 | |
| | 286 | 979.9 | 1012.2 | 15.8 | 4.4 | 10.9 | 1.7 | 32.2 | 28 | 3.0 | 2 | 1 | 4 | 2.2 | 6.1 | 38 | -6 | 16 | 11 | 4 | 99 | 176 | 1.1 | 21 | 20.1 | SW | 22 | 11 | 3 | 14 | 5.6 | |
| | 332 | 975.2 | 1010.3 | 17.2 | 2.2 | 9.2 | 0.4 | 29.4 | 28 | 3.0 | 4 | 0 | 7 | 1.7 | 6.3 | 72 | -26 | 17 | 10 | 7 | 94 | 102 | 0.6 | 28 | 19.2 | SW | 7 | 9 | 7 | 13 | 6.0 | |
| | 265 | 979.7 | 1011.5 | 15.6 | 2.2 | 8.8 | 0.3 | 31.7 | 28 | 3.0 | 2 | 0 | 13 | 0.6 | 6.1 | 31 | -38 | 11 | 8 | 3 | 0 | 0 | 0.9 | 19 | 17.9 | SW | 29 | 11 | 7 | 12 | 5.8 | |
| KANSAS | 448 | 957.0 | 1009.8 | 18.9 | 3.9 | 11.4 | -0.2 | 31.7 | 27 | 2.7 | 2 | 0 | 9 | 2.8 | 6.2 | 51 | -3 | 28 | 8 | 2 | 76 | 76 | 1.3 | 21 | 19.2 | SW | 7 | 10 | 9 | 11 | 5.4 | |
| | 787 | 919.4 | 1010.0 | 18.9 | 4.4 | 11.5 | -0.5 | 30.0 | 28 | -7.2 | 2 | 0 | 19 | -2.2 | 5.4 | 49 | -3 | 38 | 4 | 3 | 46 | 102 | 0.8 | 26 | 21.0 | NW | 12 | 14 | 8 | 9 | 6.9 | |
| | 1114 | 882.5 | 1009.4 | 16.7 | 0.0 | 8.3 | -0.6 | 28.9 | 26 | -6.7 | 1 | 0 | 19 | -2.2 | 5.4 | 31 | -10 | 9 | 6 | 0 | 173 | 127 | 1.6 | 28 | 19.2 | SW | 12 | 15 | 4 | 11 | 4.8 | |
| | 267 | 979.3 | 1011.1 | 19.4 | 4.4 | 11.9 | -0.5 | 31.1 | 28 | -10.0 | 2 | 0 | 7 | 4.4 | 6.3 | 89 | 5 | 53 | 5 | 6 | 173 | 152 | 1.7 | 19 | 16.5 | E | 18 | 9 | 7 | 14 | 6.0 | |
| KENTUCKY | 403 | 963.1 | 1010.7 | 20.0 | 6.1 | 12.8 | -0.9 | 30.0 | 27 | -2.8 | 5 | 0 | 5 | 5.6 | 6.5 | 114 | 56 | 5 | 8 | 5 | 1 | 1 | 1.2 | 21 | 18.8 | NW | 12 | 10 | 9 | 11 | 5.6 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LOUISIANA | 28 | 1010.2 | 1014.5 | 26.1 | 13.9 | 19.8 | 1.1 | 31.7 | 29 | 0.6 | 3 | 0 | 0 | 14.4 | 7.5 | 61 | -84 | 36 | 8 | 2 | 0 | 0 | 0 | 2.2 | 18 | 13.0 | SW | 2 | 6 | 19 | 7 | 7.1 |
| | 20 | 1011.9 | 1014.6 | 27.2 | 16.1 | 21.6 | 1.4 | 32.2 | 30 | 2.0 | 3 | 1 | 0 | 15.6 | 7.2 | 89 | -32 | 29 | 6 | 2 | 0 | 0 | 0 | 2.1 | 16 | 10.7 | SW | 7 | 18 | 7 | 18 | 7.3 |
| | 3 | 1012.9 | 1013.8 | 26.7 | 16.1 | 21.6 | 1.4 | 30.6 | 30 | 2.0 | 3 | 0 | 0 | 16.1 | 7.7 | 46 | -65 | 34 | 6 | 3 | 0 | 0 | 0 | 2.5 | 17 | 12.5 | SW | 7 | 15 | 6 | 15 | 6.4 |
| | 1 | 1014.6 | 1015.3 | 27.2 | 15.6 | 21.5 | 1.6 | 31.1 | 30 | 2.7 | 3 | 0 | 0 | 16.7 | 7.6 | 11 | -105 | 5 | 6 | 0 | 0 | 0 | 0 | 2.8 | 17 | 14.8 | SW | 1 | 6 | 18 | 7 | 7.0 |
| MAINE | 77 | 1003.4 | 1012.7 | 25.0 | 14.4 | 19.7 | 1.2 | 30.6 | 22 | 2.2 | 3 | 0 | 0 | 13.3 | 6.9 | 130 | 14 | 55 | 12 | 5 | 0 | 0 | 0 | 1.9 | 17 | 11.2 | SW | 3 | 6 | 18 | 7 | 7.0 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MARYLAND | 190 | 989.5 | 1014.2 | 8.3 | -1.1 | 3.4 | 1.0 | 18.9 | 30 | -12.2 | 6 | 0 | 17 | 0.0 | 66 | 90 | 24 | 40 | 13 | 0 | 297 | 229 | 1.0 | 26 | 16.5 | NW | 3 | 4 | 8 | 18 | 7.4 | |
| | 13 | 1011.9 | 1014.2 | 11.1 | 1.7 | 6.4 | 0.6 | 26.7 | 27 | -5.0 | 6 | 0 | 11 | 0.0 | 66 | 105 | 10 | 58 | 6 | 0 | 74 | 76 | 1.0 | 26 | 16.5 | NW | 3 | 11 | 6 | 13 | 5.6 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MASSACHUSETTS | 45 | 1010.8 | 1016.3 | 17.8 | 6.1 | 11.8 | -0.5 | 28.3 | 29 | -0.6 | 1 | 0 | 3 | 3.3 | 6.1 | 115 | 24 | 47 | 14 | 5 | 1 | 1 | 0.6 | 32 | 25.0 | NW | 2 | 7 | 7 | 16 | 6.4 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MINNESOTA | 192 | 1013.9 | 1014.7 | 13.9 | 3.3 | 8.4 | 0.8 | 26.7 | 28 | -2.8 | 6 | 0 | 7 | 0.6 | 5.9 | 75 | -27 | 46 | 5 | 2 | 45 | 330 | 1.5 | 27 | 19.2 | W | 3 | 9 | 13 | 8 | 5.2 | |
| | 5 | 978.0 | 1015.3 | 12.8 | 1.7 | 7.0 | 0.0 | 27.2 | 28 | -6.1 | 1 | 0 | 12 | -3.3 | 5.4 | 87 | -12 | 54 | 6 | 2 | 84 | 254 | 2.4 | 28 | 18.8 | W | 3 | 9 | 12 | 9 | 5.4 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MISSOURI | 210 | 988.2 | 1013.6 | 12.2 | -1.1 | 5.5 | 1.6 | 26.1 | 30 | -10.6 | 1 | 0 | 19 | 0.0 | 68 | 51 | -16 | 36 | 8 | 5 | 107 | 127 | 0.5 | 16 | 14.3 | E | 19 | 7 | 12 | 11 | 6.1 | |
| | 189 | 989.2 | 1013.6 | 13.9 | 4.4 | 9.4 | 0.7 | 27.8 | 30 | -3.3 | 11 | 0 | 7 | 1.1 | 6.1 | 65 | -11 | 26 | 8 | 5 | 4 | 56 | 0.9 | 25 | 16.5 | E | 19 | 6 | 11 | 13 | 6.4 | |
| | 193 | 989.2 | 1013.5 | 15.0 | 3.9 | 9.6 | 1.6 | 29.4 | 30 | -4.4 | 5 | 0 | 7 | 2.2 | 6.4 | 84 | -7 | 45 | 12 | 3 | 107 | 76 | 0.7 | 22 | 16.1 | E | 19 | 6 | 11 | 13 | 6.4 | |
| | 235 | 985.1 | 1013.3 | 13.9 | 3.3 | 8.4 | 1.1 | 27.2 | 30 | -8.3 | 3 | 0 | 9 | 1.7 | 6.6 | 88 | -1 | 26 | 11 | 2 | 221 | 203 | 1.3 | 21 | 13.4 | SW | 11 | 20 | 6 | 11 | 6.4 | |
| NEBRASKA | 239 | 983.7 | 1013.2 | 13.9 | 2.8 | 8.2 | 0.6 | 28.9 | 29 | -5.0 | 5 | 0 | 10 | 0.7 | 6.6 | 83 | -8 | 45 | 12 | 3 | 198 | 279 | 1.1 | 20 | 17.4 | SW | 23 | 8 | 7 | 15 | 6.4 | |
| | 350 | 971.2 | 1013.8 | 11.7 | 0.0 | 5.7 | 0.8 | 28.9 | 29 | -10.6 | 5 | 0 | 18 | -0.6 | 6.7 | 38 | -21 | 12 | 11 | 3 | 97 | 203 | 0.8 | 20 | 13.4 | SW | 11 | 19 | 3 | 12 | 15 | 5.9 |
| | 256 | 981.4 | 1013.6 | 13.3 | 2.8 | 8.1 | 0.4 | 27.2 | 29 | -8.3 | 3 | 0 | 12 | 1.7 | 6.5 | 80 | -7 | 40 | 14 | 6 | 432 | 279 | 1.4 | 21 | 19.2 | SW | 9 | 9 | 7 | 14 | 6.0 | |
| | 206 | 989.8 | 1013.1 | 13.3 | 2.8 | 8.1 | 0.4 | 27.2 | 29 | -8.3 | 3 | 0 | 12 | 1.7 | 6.5 | 80 | -7 | 40 | 14 | 6 | 432 | 279 | 1.4 | 21 | 19.2 | SW | 9 | 9 | 7 | 14 | 6.0 | |
| NEVADA | 256 | 981.4 | 1013.6 | 13.3 | 2.8 | 8.1 | 0.4 | 27.2 | 29 | -8.3 | 3 | 0 | 12 | 1.7 | 6.5 | 80 | -7 | 40 | 14 | 6 | 432 | 279 | 1.4 | 21 | 19.2 | SW | 9 | 9 | 7 | 14 | 6.0 | |
| | 206 | 989.8 | 1013.1 | 13.3 | 2.8 | 8.1 | 0.4 | 27.2 | 29 | -8.3 | 3 | 0 | 12 | 1.7 | 6.5 | 80 | -7 | 40 | 14 | 6 | 432 | 279 | 1.4 | 21 | 19.2 | SW | 9 | 9 | 7 | 14 | 6.0 | |
| | 191 | 989.8 | 1013.1 | 13.3 | 2.8 | 8.1 | 0.4 | 27.2 | 29 | -8.3 | 3 | 0 | 12 | 1.7 | 6.5 | 80 | -7 | 40 | 14 | 6 | 432 | 279 | 1.4 | 21 | 19.2 | SW | 9 | 9 | 7 | 14 | 6.0 | |
| | 220 | 986.1 | 1013.1 | 9.4 | -1.7 | 3.9 | 0.6 | 25.0 | 28 | -11.1 | 5 | 0 | 20 | -1.7 | 6.9 | 46 | -9 | 28 | 11 | 2 | 137 | 127 | 1.4 | 19 | 20.6 | E | 22 | 5 | 10 | 15 | 6.3 | |
| NEW YORK | 435 | 959.7 | 1011.9 | 8.3 | -1.1 | 3.7 | 0.9 | 22.8 | 25 | -17.8 | 2 | 0 | 18 | -3.3 | 6.5 | 80 | 20 | 37 | 12 | 4 | 376 | 203 | 1.0 | 9 | 24.1 | W | 8 | 5 | 9 | 16 | 7.1 | |
| | 359 | 967.5 | 1011.3 | 7.8 | -1.7 | 2.9 | -0.1 | 19.4 | 25 | -21.7 | 1 | 0 | 19 | -2.2 | 6.9 | 46 | 7 | | | | | | | | | | | | | | | |
| | 254 | 980.4 | 1011.1 | 13.3 | 2.2 | 7 | | | | | | | | | | | | | | | | | | | | | | | | | | |

METRIC UNITS

APRIL 1970

See footnotes at end of table

METRIC UNITS

APRIL 1975

See footnotes at end of table

See footnotes at end of table

METRIC UNITS

APRIL 1970

see footnotes at end of table

METRIC UNITS

APRIL 1970

Data in this table are obtained by conversion from data in the English Units table.

HEATING DEGREE DAYS

(Base 65°F.)

APRIL 1970

| State and station | Current season | | | State and station | Current season | | | State and station | Current season | | | State and station | Current season | | |
|---------------------|----------------|--------------------------------|---------------------------------|---------------------|----------------|--------------------------------|---------------------------------|---------------------|----------------|--------------------------------|---------------------------------|-------------------|----------------|--------------------------------|---------------------------------|
| | This month | Period July through this month | Normals July through this month | | This month | Period July through this month | Normals July through this month | | This month | Period July through this month | Normals July through this month | | This month | Period July through this month | Normals July through this month |
| ALABAMA | | | | IDAHO | | | | NEBRASKA | | | | TENNESSEE | | | |
| BIRMINGHAM | 91 | 3086 | 2542 | BOISE | 631 | 5278 | 5483 | GRAND ISLAND | 471 | 6381 | 6274 | BRISTOL | 201 | 4677 | 4075 |
| MONTGOMERY | 99 | 3527 | 3051 | LEWISTON | 556 | 5081 | 5213 | LINCOLN U | 379 | 5902 | 5663 | CHATTANOOGA | 194 | 4312 | 3229 |
| MOBILE | 14 | 1782 | 1560 | POCATELLO | 771 | 6344 | 6573 | NORFOLK | 511 | 6939 | 6698 | KNOXVILLE | 149 | 4040 | 3451 |
| | 51 | 2631 | 2291 | | | | | NORTH PLATTE | 582 | 6547 | 6379 | MURFREESBORO | 97 | 3554 | 3210 |
| ALASKA | | | | ILLINOIS | | | | OMAHA | 388 | 6165 | 6024 | NASHVILLE | 156 | 4070 | 3618 |
| ANCHORAGE | 852 | 8538 | 9820 | CHICAGO O HARE | 142 | 4355 | 3774 | SCOTTSBLUFF | 703 | 6520 | 6313 | OAK RIDGE R | 172 | 4288 | 3761 |
| FAIRBANKS | 604 | 5305 | 6258 | CHICAGO MIDWAY | 418 | 6373 | 6307 | VALENTINE | 665 | 6028 | 7053 | | | | |
| BARROW | 2041 | 18370 | 17772 | MOBILE | 419 | 6696 | 6180 | NEVADA | | | | TEXAS | | | |
| BARTER ISLAND | 1964 | 17896 | 17565 | PEORIA | 402 | 6498 | 5804 | ELKO | 849 | 6723 | 6832 | ABILENE | 72 | 2791 | 2624 |
| BETHEL | 1272 | 11991 | 11988 | ROCKFORD | 502 | 7010 | 6534 | ELY | 900 | 6717 | 7012 | AMARILLO | 47 | 4311 | 3929 |
| BETTLES | 1233 | 13755 | | SPRINGFIELD | 332 | 5944 | 5275 | LAS VEGAS | 208 | 2941 | 2703 | AUSTIN | 47 | 2000 | 1711 |
| BIG DELTA | 1044 | 11575 | | INDIANA | | | | PENNA | 822 | 5179 | 5786 | BRADENSVILLE | 4 | 569 | 600 |
| COLD BAY | 987 | 8155 | 8498 | EVANSVILLE | 225 | 5164 | 4367 | WINNEUECCA | 605 | 6029 | 6245 | CORPUS CHRISTI | 29 | 1127 | 514 |
| FAIRBANKS | 981 | 12335 | 13502 | FORT WAYNE | 448 | 6494 | 5977 | | | | | DALLAS | 54 | 2420 | 2357 |
| GULKANA | 994 | 11941 | | INDIANAPOLIS | 316 | 6011 | 5483 | NEW HAMPSHIRE | | | | DEL RIO | 40 | 1775 | 1504 |
| HOMER | 894 | 8313 | | SOUTH BEND | 497 | 6598 | 6140 | CONCORD | 572 | 7357 | 7010 | EL PASO | 94 | 2221 | 2700 |
| ILIADNA | 1052 | 9520 | | | | | | MT WASHINGTON OBS | 1266 | 12463 | 12284 | FORT WORTH | 63 | 2563 | 2405 |
| JUNEAU | 770 | 7737 | 8093 | IOWA | | | | | | | | GALVESTON U | 51 | 1269 | 1235 |
| KING SALMON | 1049 | 9904 | 10262 | BURLINGTON | 420 | 6500 | 5904 | NEW JERSEY | | | | HOUSTON | 158 | 1626 | 1676 |
| KOTZEBUE | 1626 | 13861 | 14412 | DES MOINES | 422 | 6647 | 6558 | ATLANTIC CITY | 453 | 5363 | 4664 | LIMBURY | 198 | 3634 | 3547 |
| MC GRATH | 1179 | 11192 | 13377 | DUBUQUE | 502 | 7568 | 7038 | ATLANTIC CITY U | 411 | 4618 | 4528 | MIDLAND | 137 | 2941 | 2591 |
| NOME | 1494 | 12592 | 12668 | SIoux CITY | 475 | 7066 | 6698 | NEWARK | 390 | 5225 | 4931 | PORT ARTHUR | 22 | 1888 | 1447 |
| ST. PAUL ISLAND | 1154 | 9242 | 9537 | WATERLOO | 536 | 7987 | 7037 | TRENTON U | 409 | 5245 | 4847 | SAN ANTONIO | 92 | 2411 | 2255 |
| SHEMYA | 898 | 8088 | 8154 | KANSAS | | | | NEW MEXICO | | | | SAN ANTONIO | 45 | 1796 | 1546 |
| SUMMIT | 1356 | 11935 | | CONCORDIA | 391 | 5580 | 5312 | ALBUQUERQUE | 367 | 4624 | 4267 | SAN ANTONIO | 34 | 1354 | 1173 |
| TALKEETNA | 969 | 9642 | 10633 | CONCORDIA | 382 | 4906 | 4853 | CLAYTON | 483 | 5183 | 4954 | WACO | 60 | 2362 | 2030 |
| UNALAKLET | 1383 | 12253 | | DODGE CITY | 532 | 5682 | 5863 | ROSWELL | 214 | 3687 | 3762 | WICHITA FALLS | 131 | 3363 | 2826 |
| YAKUTAT | 877 | 7977 | 8026 | GOODLAND | 376 | 5430 | 5046 | | | | | UTAH | | | |
| | | | | TOPEKA | 312 | 4903 | 4527 | NEW YORK | | | | MILFORD | 689 | 5906 | 6131 |
| ARIZONA | | | | WICHITA | | | | ALBANY | 495 | 7138 | 6591 | SALT LAKE CITY | 615 | 5299 | 5724 |
| FLAGSTAFF | 821 | 6524 | 6535 | KENTUCKY | | | | BINGHAMTON | 599 | 7205 | 6874 | WENDOVER | 603 | 5584 | 5550 |
| PHOENIX | 60 | 1167 | 1765 | COVINGTON | 264 | 5450 | 5092 | BUFFALO | 552 | 6826 | 6655 | VERMONT | | | |
| TUCSON | 132 | 1712 | 1794 | LEXINGTON | 251 | 5089 | 4578 | NEW YORK U | 387 | 5106 | 4744 | BURLINGTON | 663 | 8324 | 7826 |
| WINSLOW | 518 | 4789 | 4686 | LOUISVILLE | 200 | 4853 | 4546 | NEW YORK KENNEDY | 444 | 5061 | 5040 | | | | |
| YUMA | 53 | 910 | 1217 | | | | | NEW YORK LA GUARDIA | 414 | 5177 | 4681 | VIRGINIA | | | |
| ARKANSAS | | | | LOUISIANA | | | | ROCHESTER | 506 | 6715 | 6421 | LYNCHBURG | 278 | 4821 | 4088 |
| FORT SMITH | 112 | 3578 | 3270 | ALEXANDRIA | 75 | 2504 | 1921 | SYRACUSE | 536 | 6810 | 6463 | NORFOLK | 263 | 3908 | 3384 |
| LITTLE ROCK | 124 | 3559 | 3210 | BATON ROUGE | 31 | 1856 | 1560 | NORTH CAROLINA | | | | RICHMOND | 231 | 4476 | 3812 |
| CALIFORNIA | | | | LAKE CHARLES | 37 | 1890 | 1459 | ASHEVILLE | 236 | 4408 | 4346 | ROANOKE | 269 | 4711 | 4085 |
| BAKERSFIELD | 158 | 1607 | 2103 | NEW ORLEANS | 24 | 1696 | 1385 | CAPE MATTERAS R | 167 | 3077 | 2587 | WALLOPS ISLAND | 358 | 4604 | |
| BISHOP | 457 | 4119 | 4048 | SHREVEPORT | 58 | 2454 | 2184 | CHARLOTTE | 154 | 3751 | 3169 | WASHINGTON | | | |
| BLUE CANYON | 733 | 4743 | 4815 | MAINE | | | | GREENSBORO | 160 | 3946 | 3758 | OLYMPIA | 591 | 4981 | 4752 |
| EUREKA U | 521 | 3680 | 3986 | CARLETON | 800 | 8848 | 9116 | RALEIGH | 200 | 4159 | 3359 | QUILAYUTE | 628 | 4994 | 5066 |
| FRESNO | 232 | 2437 | 2436 | PORTLAND | 637 | 6777 | 7028 | WILMINGTON | 113 | 2867 | 2347 | SEATTLE TACOMA | 543 | 4156 | 4691 |
| LONG BEACH | 151 | 1035 | 1603 | MARYLAND | | | | NORTH DAKOTA | | | | SPOKANE | 696 | 6443 | 6232 |
| LOS ANGELES | 167 | 989 | 1624 | BALTIMORE | 346 | 4822 | 4564 | BISMARCK | 758 | 8785 | 8405 | STAMPEDE PASS R | 1015 | 8282 | 8146 |
| LOS ANGELES U | 134 | 846 | 1263 | MASSACHUSETTS | | | | FARGO | 773 | 9277 | 8795 | WALLA WALLA | 501 | 4646 | 4583 |
| MT CROSBY R | 668 | 5076 | 5216 | BLUE HILL OBS R | 529 | 6357 | 6032 | WILLISTON | 807 | 8771 | 8745 | YAFIMA | 556 | 5498 | 5652 |
| OAKLAND | 316 | 2217 | 2400 | BOSTON | 473 | 5429 | 5190 | OHIO | | | | WEST VIRGINIA | | | |
| RED BLUFF | 263 | 2325 | 2468 | WORCESTER | 604 | 7018 | 6587 | AKRON | 458 | 6386 | 5796 | BECKLEY | 351 | 5869 | 5194 |
| SACRAMENTO | 258 | 2371 | 2665 | MICHIGAN | | | | CINCINNATI OBS | 251 | 5350 | 4679 | CHARLESTON | 239 | 4988 | 4371 |
| SANBERG R | 595 | 4017 | 3888 | ALPENA | 687 | 8096 | 7904 | CLEVELAND | 462 | 6336 | 5886 | ELKINS | 456 | 6394 | 5429 |
| SAN DIEGO | 143 | 894 | 1319 | DETROIT | 494 | 6460 | 5970 | COLUMBUS | 365 | 6018 | 5442 | HUNTINGTON | 264 | 5160 | 4335 |
| SAN FRANCISCO | 331 | 2177 | 2675 | DETROIT METRO | 479 | 6597 | 6196 | DAYTON | 337 | 5800 | 5425 | PARKERSBURG U | 283 | 5278 | 4633 |
| SAN FRANCISCO U | 341 | 2181 | 2582 | FLINT | 544 | 7021 | 6524 | MANSFIELD | 444 | 6237 | 6098 | WISCONSIN | | | |
| SANTA MARIA | 356 | 2229 | 2569 | GRAND RAPIDS | 559 | 7187 | 6604 | TOLEDO | 495 | 6767 | 6192 | GREEN BAY | 550 | 8084 | 7595 |
| STOCKTON | 251 | 2445 | 2642 | HOUGHTON LAKE | 682 | 8170 | 7805 | YOUNGSTOWN | 509 | 6812 | 6109 | LA CROSSE | 499 | 7415 | 7275 |
| COLORADO | | | | LANSING | 564 | 6983 | 6567 | OKLAHOMA | | | | MADISON | 521 | 7622 | 7451 |
| ALAMOSA | 857 | 8057 | 7921 | MARQUETTE U | 739 | 7915 | 7748 | OKLAHOMA CITY | 187 | 3951 | 3691 | MILWAUKEE | 561 | 7265 | 7128 |
| COLORADO SPRINGS | 684 | 6288 | 6020 | MUSKOGON | 564 | 6933 | 6308 | TULSA | 174 | 4057 | 3813 | WYOMING | | | |
| DENVER | 632 | 6022 | 5929 | SAULT STE MARIE | 774 | 8872 | 8370 | OREGON | | | | CASPER | 797 | 7082 | 6900 |
| GRAND JUNCTION | 464 | 5431 | 5474 | MINNESOTA | | | | ASTORIA | 584 | 4647 | 4592 | CHEYENNE | 811 | 6755 | 6795 |
| PUEBLO | 418 | 4848 | 5273 | DULUTH | 781 | 9320 | 9312 | BURNS U | 809 | 6554 | 6414 | LANDER | 842 | 7096 | 7336 |
| CONNECTICUT | | | | INTERNATIONAL FALLS | 829 | 10117 | 9989 | EUGENE | 534 | 4235 | 4312 | SHERIDAN | 794 | 7317 | 7167 |
| BRIDGEPORT | 465 | 5532 | 5382 | MINNEAPOLIS | 577 | 8033 | 8013 | MEACHAM | 934 | 7016 | 7008 | | | | |
| HARTFORD | 483 | 6338 | 5971 | ROCHESTER | 588 | 8224 | 7901 | MEDFORD | 558 | 4379 | 4688 | | | | |
| DELAWARE | | | | ST CLOUD | 692 | 8771 | 8448 | PENDLETON | 568 | 5084 | 4849 | | | | |
| WILMINGTON | 389 | 5246 | 4812 | MISSISSIPPI | | | | PORTLAND | 493 | 4008 | 4285 | | | | |
| DIST OF COLUMBIA | | | | JACKSON | 72 | 2686 | 2203 | SALEM | 571 | 4483 | 4337 | | | | |
| WASHINGTON DULLES | 378 | 5886 | | MERIDIAN | 68 | 2678 | 2289 | SEXTON SUMMIT P | 822 | 5478 | 5510 | | | | |
| WASHINGTON NATIONAL | 294 | 4509 | 4150 | MISSOURI | | | | PENNSYLVANIA | | | | | | | |
| FLORIDA | | | | COLUMBIA REGIONAL | 304 | 5419 | 4933 | ALLENTOWN | 490 | 6270 | 5619 | | | | |
| APALACHICOLA U | 18 | 1606 | 1308 | KANSAS CITY | 280 | 4848 | 4602 | ERIE | 605 | 7069 | 6103 | | | | |
| DAYTONA BEACH | 2 | 1041 | 879 | ST JOSEPH | 292 | 5059 | 5336 | HARRISBURG | 407 | 5679 | 5115 | | | | |
| FORT MYERS | 0 | 599 | 442 | ST LOUIS | 257 | 5139 | 4766 | PHILADELPHIA | 369 | 5308 | 4974 | | | | |
| JACKSONVILLE | 22 | 1556 | 1239 | SPRINGFIELD | 290 | 5098 | 4450 | PITTSBURGH | 390 | 6178 | 5753 | | | | |
| KEY WEST | 0 | 83 | 108 | MONTANA | | | | PITTSBURGH U | 367 | 5704 | 5144 | | | | |
| LAKELAND U | 0 | 917 | 661 | BILLINGS | 787 | 6888 | 6662 | SCRANTON | 500 | 6647 | 6026 | | | | |
| MIAMI | 0 | 268 | 214 | GLASSGOW | 758 | 8316 | 8511 | WILLIAMSPORT | 453 | 6243 | 5713 | | | | |
| ORLANDO | 0 | 858 | 766 | GREAT FALLS | 785 | 7219 | 7180 | PHODE ISLAND | | | | | | | |
| PENSACOLA | 17 | 1713 | 1463 | HAVRE | 753 | 8171 | 8200 | BLOCK ISLAND | 601 | 5640 | 5361 | | | | |
| TALLAHASSEE | 41 | 1992 | 1495 | HELENA | 849 | 7551 | 7553 | PROVIDENCE | 509 | 6056 | 5667 | | | | |
| TAMPA | 0 | 962 | 683 | KALISPELL | 743 | 7896 | 7587 | SOUTH CAROLINA | | | | | | | |
| WEST PALM BEACH | 0 | 472 | 253 | MILES CITY | 754 | 7460 | 7348 | CHARLESTON U | 82 | 2487 | 2033 | | | | |
| GEORGIA | | | | MISSOULA | 751 | 7232 | 7515 | COLUMBIA | 73 | 2175 | 1794 | | | | |
| ATHENS | 117 | 3196 | 2957 | | | | | GRNVILLE SPRTNBGR | 124 | 3409 | 3021 | | | | |
| ATLANTA | 95 | 3249 | 2958 | | | | | SOUTH DAKOTA | | | | | | | |
| AUGUSTA | 113 | 2991 | 2397 | | | | | ABERDEEN | 704 | 8531 | 8088 | | | | |
| COLUMBUS | 60 | 2690 | 2383 | | | | | HURON | 635 | 7840 | 7848 | | | | |
| MACON | 55 | 2481 | 2136 | | | | | RAPID CITY | 767 | 7063 | 6893 | | | | |
| ROME | 127 | 3677 | 3292 | | | | | SIOUX FALLS | 603 | 8070 | 7491 | | | | |
| SAVANNAH | 57 | 2291 | 1819 | | | | | | | | | | | | |

Data from airport unless otherwise specified.

U indicates Urban, R indicates Rural, S indicates.

COOLING DEGREE DAYS

(Base 65°F.)

APRIL 1970

| State and station | Current season | | Normals January through this month | State and station | Current season | | Normals January through this month | State and station | Current season | | Normals January through this month | State and station | Current season | | Normals January through this month |
|---------------------|----------------|-----------------------------------|------------------------------------|---------------------|----------------|-----------------------------------|------------------------------------|---------------------|----------------|-----------------------------------|------------------------------------|-------------------|----------------|-----------------------------------|------------------------------------|
| | This month | Period January through this month | | | This month | Period January through this month | | | This month | Period January through this month | | | This month | Period January through this month | |
| ALABAMA | | | | HAWAII | | | | NEBRASKA | | | | SOUTH DAKOTA | | | |
| BIRMINGHAM | 115 | 117 | | HILO | 229 | 820 | | NORTH PLATTE | 4 | 4 | | ABERDEEN | 0 | 0 | |
| HUNTSVILLE | 88 | 88 | | HONOLULU | 409 | 1319 | | OMAHA | 32 | 32 | | HURON | 0 | 0 | |
| MOBILE | 229 | 293 | | KAHOLUI | 310 | 905 | | SCOTTSBLUFF | 0 | 0 | | RAPID CITY | 0 | 0 | |
| MONTGOMERY | 146 | 150 | | LIHUE | 325 | 1013 | | VALENTINE | 0 | 0 | | SIOUX FALLS | 6 | 6 | |
| ALASKA | | | | IDAHO | | | | NEVADA | | | | TENNESSEE | | | |
| ANCHORAGE | 0 | 0 | | BOISE | 0 | 0 | | ELKO | 0 | 0 | | BRISTOL | 28 | 28 | |
| ANNETTE | 0 | 0 | | LEWISTON | 0 | 0 | | ELY | 0 | 0 | | CHATTANOOGA | 57 | 57 | |
| BARROW | 0 | 0 | | POCATELLO | 0 | 0 | | LAS VEGAS | 21 | 21 | | KNOXVILLE | 33 | 33 | |
| BARTER ISLAND | 0 | 0 | | ILLINOIS | | | | RENO | 0 | 0 | | MEMPHIS | 104 | 107 | |
| BETHLE | 0 | 0 | | CAIRO U | 62 | 62 | | WINNEHUCCA | 0 | 0 | | NASHVILLE | 56 | 56 | |
| BETTES | 0 | 0 | | CHICAGO O HARE | 26 | 26 | | | | | | OAK RIDGE R | 37 | 37 | |
| RIF DELTA | 0 | 0 | | CHICAGO MIDWAY | 32 | 32 | | NEW HAMPSHIRE | | | | TEXAS | | | |
| COLD BAY | 0 | 0 | | MOBILE | 32 | 32 | | CONCORD | 1 | 1 | | ABILENE | 104 | 111 | |
| FAIRBANKS | 0 | 0 | | PEORIA | 24 | 24 | | MT WASHINGTON OBS | 0 | 0 | | AMARILLO | 14 | 14 | |
| GULFANA | 0 | 0 | | ROCKFORD | 16 | 16 | | | | | | AUSTIN | 165 | 184 | |
| HOMER | 0 | 0 | | SPRINGFIELD | 31 | 31 | | NEW JERSEY | 0 | 0 | | BROWNSVILLE | 356 | 555 | |
| ILLAWNA | 0 | 0 | | INDIANA | | | | ATLANTIC CITY | 0 | 0 | | CORPUS CHRISTI | 287 | 362 | |
| JUNEAU | 0 | 0 | | EVANSVILLE | 43 | 43 | | ATLANTIC CITY U | 0 | 0 | | DALLAS | 136 | 155 | |
| JING SALMON | 0 | 0 | | FORT WAYNE | 16 | 16 | | NEWARK | 4 | 4 | | DEL RIO | 200 | 218 | |
| KOTZEBUE | 0 | 0 | | INDIANAPOLIS | 26 | 26 | | TRENTON U | 2 | 2 | | EL PASO | 57 | 59 | |
| MC GRATH | 0 | 0 | | SOUTH BEND | 19 | 19 | | | | | | FORT WORTH | 108 | 120 | |
| NOME | 0 | 0 | | IOWA | | | | NEW MEXICO | 0 | 0 | | GALVESTON U | 174 | 177 | |
| ST. PAUL ISLAND | 0 | 0 | | BURLINGTON | 24 | 24 | | ALBUQUERQUE | 0 | 0 | | HOUSTON INTERCON | 188 | 216 | |
| SHEPVA | 0 | 0 | | DES MOINES | 31 | 31 | | CLAYTON | 0 | 0 | | LUBBOCK | 11 | 11 | |
| SUMMIT | 0 | 0 | | DUBUQUE | 19 | 19 | | ROSWELL | 9 | 9 | | MIDLAND | 37 | 37 | |
| TALKEETNA | 0 | 0 | | SIOUX CITY | 23 | 23 | | | | | | PORT ARTHUR | 225 | 263 | |
| YNALAKLEET | 0 | 0 | | WATERLOO | 28 | 28 | | NEW YORK | | | | SAN ANGELO | 135 | 149 | |
| YAKUTAT | 0 | 0 | | KANSAS | | | | BINGHAMTON | 12 | 12 | | SAN ANTONIO | 208 | 234 | |
| ARIZONA | | | | CONCORDIA | 23 | 23 | | BUFFALO | 14 | 14 | | VICTORIA | 234 | 282 | |
| FLAGSTAFF | 0 | 0 | | DODGE CITY | 18 | 18 | | NEW YORK U | 8 | 8 | | WACO | 155 | 159 | |
| PHOENIX | 58 | 66 | | GOODLAND | 0 | 0 | | NEW YORK KENNEDY | 0 | 0 | | WICHITA FALLS | 85 | 89 | |
| TUCSON | 25 | 30 | | TOPEKA | 35 | 35 | | NEW YORK LA GUARDIA | 2 | 2 | | UTAH | | | |
| WINSLOW | 85 | 125 | | WICHITA | 24 | 26 | | ROCHESTER | 16 | 16 | | MILFORD | 0 | 0 | |
| YUMA | 0 | 0 | | KENTUCKY | | | | SYRACUSE | 11 | 8 | | SALT LAKE CITY | 0 | 0 | |
| ARKANSAS | | | | COVINGTON | 28 | 28 | | | | | | WENDOVER | 0 | 0 | |
| FORT SMITH | 76 | 78 | | LEXINGTON | 26 | 26 | | NORTH CAROLINA | | | | VERMONT | | | |
| LITTLE ROCK | 77 | 80 | | LOUISVILLE | 36 | 36 | | CAPE HATTERAS R | 22 | 22 | | BURLINGTON | 0 | 0 | |
| CALIFORNIA | | | | LOUISIANA | | | | CHARLOTTE | 7 | 7 | | | | | |
| BAKERSFIELD | 13 | 24 | | ALEXANDRIA | 163 | 176 | | GREENSBORO | 47 | 47 | | VIRGINIA | | | |
| RICHOP | 0 | 0 | | BATON ROUGE | 211 | 250 | | PALEIGH | 45 | 45 | | LYNCHBURG | 17 | 17 | |
| BLUE CANYON | 0 | 0 | | LAKE CHARLES | 206 | 219 | | WILMINGTON | 41 | 41 | | NORFOLK | 19 | 20 | |
| EUREKA U | 0 | 0 | | NEW ORLEANS | 200 | 245 | | | 90 | 90 | | RICHMOND | 35 | 35 | |
| FRESNO | 0 | 0 | | SHREVEPORT | 138 | 192 | | NORTH DAKOTA | | | | ROANOKE | 22 | 22 | |
| LONG BEACH | 8 | 10 | | MAINE | | | | BISMARCK | 0 | 0 | | WALLOPS ISLAND | 1 | 1 | |
| LOS ANGELES | 4 | 10 | | CARIBOU | 0 | 0 | | FARGO | 0 | 0 | | WASHINGTON | | | |
| LOS ANGELES U | 17 | 45 | | PORTLAND | 0 | 0 | | WILLISTON | 0 | 0 | | OLYMPIA | 0 | 0 | |
| MT SHASTA R | 0 | 0 | | MARYLAND | | | | | | | | QUILLAYUTE | 0 | 0 | |
| OAKLAND | 0 | 1 | | BALTIMORE | 4 | 4 | | AKRON | 17 | 17 | | SEATTLE TACOMA | 0 | 0 | |
| RED BLUFF | 2 | 4 | | MASSACHUSETTS | | | | CINCINNATI OBS | 32 | 32 | | SPOKANE | 0 | 0 | |
| SACRAMENTO | 0 | 0 | | BOSTON | 0 | 0 | | CLEVELAND | 22 | 22 | | STAMPEDE PASS R | 0 | 0 | |
| SANBERG R | 0 | 0 | | WORCESTER | 0 | 0 | | COLUMBUS | 22 | 22 | | WALLA WALLA U | 0 | 0 | |
| SAN DIEGO | 1 | 3 | | MICHIGAN | | | | DAYTON | 22 | 22 | | YAKIMA | 0 | 0 | |
| SAN FRANCISCO | 0 | 0 | | ALPENA | 2 | 2 | | WANSFIELD | 17 | 17 | | | | | |
| SAN FRANCISCO U | 0 | 0 | | DETROIT | 18 | 18 | | TOLEDO | 19 | 19 | | WEST INDIES | | | |
| SANTA MARIA | 0 | 0 | | DETROIT METRO | 17 | 17 | | YOUNGSTOWN | 16 | 16 | | SAN JUAN P.R. | 460 | 1552 | |
| STOCKTON | 0 | 0 | | FLINT | 17 | 17 | | | | | | SWAN ISLAND | 522 | 1734 | |
| COLORADO | | | | GRAND RAPIDS | 19 | 19 | | OKLAHOMA | | | | WEST VIRGINIA | | | |
| ALAMOSA | 0 | 0 | | HOUGHTON LAKE | 6 | 6 | | OKLAHOMA CITY | 47 | 48 | | BECKLEY | 16 | 16 | |
| COLORADO SPRINGS | 0 | 0 | | LANSING | 15 | 15 | | TULSA | 50 | 50 | | CHARLESTON | 40 | 40 | |
| DENVER | 0 | 0 | | MARQUETTE U | 0 | 0 | | | | | | ELKINS | 2 | 2 | |
| GRAND JUNCTION | 0 | 0 | | MUSKOGON | 13 | 13 | | ASTORIA | 0 | 0 | | HUNTINGTON | 21 | 21 | |
| PUEBLO | 2 | 2 | | SAULT STE MARIE | 0 | 0 | | BURNS U | 0 | 0 | | PARKERSBURG U | 32 | 32 | |
| CONNECTICUT | | | | MINNESOTA | | | | EUGENE | 0 | 0 | | | | | |
| BRIDGEPORT | 0 | 0 | | DULUTH | 0 | 0 | | MEACHAM | 0 | 0 | | WISCONSIN | | | |
| HARTFORD | 8 | 8 | | INTERNATIONAL FALLS | 0 | 0 | | NEOFORD | 0 | 0 | | GREEN BAY | 10 | 10 | |
| DELAWARE | | | | MINNEAPOLIS | 17 | 17 | | PENDLETON | 0 | 0 | | LA CROSSE | 29 | 29 | |
| WILMINGTON | 2 | 2 | | ROCHESTER | 15 | 15 | | PORTLAND | 0 | 0 | | MADISON | 12 | 12 | |
| DIST. OF COLUMBIA | | | | ST CLOUD | 3 | 3 | | SALEM | 0 | 0 | | MILWAUKEE | 4 | 4 | |
| WASHINGTON DULLES | 10 | 10 | | MISSISSIPPI | | | | SEXTON SUMMIT R | 11 | 0 | | | | | |
| WASHINGTON NATIONAL | 10 | 10 | | JACKSON | 173 | 185 | | | | | | WYOMING | | | |
| FLORIDA | | | | MERIDIAN | 163 | 167 | | PACIFIC AREA | | | | CASPER | 0 | 0 | |
| APALACHICOLA U | 199 | 221 | | MISSOURI | | | | GUAM TAGUAC R | 425 | 1591 | | CHEYENNE | 0 | 0 | |
| DAYTONA BEACH | 243 | 274 | | COLUMBIA REGIONAL | 32 | 32 | | JOHNSTON | 393 | 1577 | | LANDER | 0 | 0 | |
| FORT MYERS | 303 | 451 | | KANSAS CITY | 58 | 58 | | KOPOR R | 536 | 2072 | | SHERIDAN | 0 | 0 | |
| JACKSONVILLE | 227 | 314 | | ST JOSEPH | 63 | 63 | | KWAJALEIN | 562 | 2207 | | | | | |
| KEY WEST | 424 | 876 | | ST LOUIS | 54 | 54 | | MAJURO | 521 | 2052 | | | | | |
| LAKELAND | 281 | 410 | | SPRINGFIELD | 22 | 22 | | PAGO PAGO | 486 | 1934 | | | | | |
| MIAMI | 424 | 808 | | NEBRASKA | | | | PONAPE R | 508 | 2015 | | | | | |
| ORLANDO | 330 | 491 | | GRAND ISLAND | 12 | 12 | | TRUK MOEN ISLAND | 528 | 2073 | | | | | |
| PENSACOLA | 206 | 225 | | LINCOLN U | 38 | 38 | | WAKE | 535 | 1811 | | | | | |
| TALLAHASSEE | 174 | 239 | | NORFOLK | 9 | 9 | | YAP R | 519 | 1990 | | | | | |
| TAMPA | 245 | 362 | | | | | | | | | | | | | |
| WEST PALM BEACH | 329 | 571 | | | | | | | | | | | | | |
| GEORGIA | | | | | | | | | | | | | | | |
| ATHENS | 83 | 83 | | | | | | | | | | | | | |
| ATLANTA | 86 | 80 | | | | | | | | | | | | | |
| AUGUSTA | 93 | 96 | | | | | | | | | | | | | |
| COLUMBUS | 144 | 145 | | | | | | | | | | | | | |
| MACON | 143 | 152 | | | | | | | | | | | | | |
| ROME | 75 | 75 | | | | | | | | | | | | | |
| SAVANNAH | 163 | 193 | | | | | | | | | | | | | |

Data from airport unless otherwise specified.
U indicates Urban, R indicates Rural, sites.

STORM SUMMARY

APRIL 1970

| STATE | TORNADOES | | | | | HAILSTORMS | | | | WINDSTORMS | | | | LIGHTNING | | | | # HEAVY SNOWSTORMS
AND BLIZZARDS | | | | # ICE STORMS | | | | Ø ALL OTHER | | | | |
|------------------|-----------|------|--------|----------|--------|------------|----------|---------------|-------|------------|----------|---------------|-------|-----------|----------|---------------|-------|-------------------------------------|----------|---------------|-------|--------------|----------|---------------|-------|-------------|----------|---------------|-------|---|
| | NUMBER | DAYS | DEATHS | INJURIES | DAMAGE | DEATHS | INJURIES | DAMAGE | | DEATHS | INJURIES | DAMAGE | | DEATHS | INJURIES | DAMAGE | | DEATHS | INJURIES | DAMAGE | | DEATHS | INJURIES | DAMAGE | | DEATHS | INJURIES | DAMAGE | | |
| | | | | | | | | PROP.
ERTY | CROPS | | | PROP.
ERTY | CROPS | | | PROP.
ERTY | CROPS | | | PROP.
ERTY | CROPS | | | PROP.
ERTY | CROPS | | | PROP.
ERTY | CROPS | |
| Alabama | 6 | 3 | 0 | 0 | 5 | | | | | 0 | 0 | 6 | 0 | | | | | | | | | | | | | | | | | |
| Alaska* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Arizona* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Arkansas | 0 | 3 | 0 | 2 | 5 | | | | | 0 | 6 | 5 | 0 | | | | | | | | | | | | | | | | | |
| California | 1 | 1 | 0 | 0 | 4 | | | | | | | | | | | | | | | | | | | | | 0 | 0 | 0 | 6 | |
| Colorado | | | | | | | | | | 0 | 0 | 4 | 0 | | | | | | | | | | | | | | | | | |
| Connecticut | | | | | | | | | | 0 | 0 | 4 | 0 | | | | | | | | | | | | | 0 | 0 | 4 | 0 | |
| Delaware | | | | | | | | | | 0 | 0 | 5 | 0 | | | | | | | | | | | | | 0 | 0 | 4 | 0 | |
| Florida | 1 | 1 | 0 | 0 | 3 | | | | | 0 | 0 | 4 | 0 | | | | | | | | | | | | | | | | | |
| Georgia | 7 | 3 | 0 | 7 | 5 | 0 | 0 | 3 | 0 | 0 | 0 | 4 | 0 | 0 | 1 | 3 | 0 | | | | | | | | | | | | | |
| Hawaii* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Idaho | | | | | | | | | | 0 | 7 | 4 | 0 | | | | | 0 | 0 | 4 | 0 | | | | | | | | | |
| Illinois | 3 | 2 | 0 | 0 | 5 | 0 | 0 | 2 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 4 | 0 | | | | | | | | | |
| Indiana | 9 | 3 | 0 | 6 | 5 | 0 | 0 | 5 | 4 | 0 | 3 | 6 | 0 | 0 | 0 | 4 | 0 | | | | | | | | 0 | @ | 3 | 3 | 0 | |
| Iowa | 1 | 1 | 0 | 0 | 6 | | | | | 0 | 2 | 5 | 0 | | | | | | | | | | | | | | | | | |
| Kansas | | | | | | 0 | 0 | 4 | 4 | 0 | 3 | 5 | 4 | 0 | 0 | 5 | 0 | | | | | | | | | 0 | 0 | 5 | 4 | |
| Kentucky | 4 | 3 | 0 | 13 | 5 | 0 | 0 | 2 | 2 | 0 | 5 | 2 | 2 | 0 | 2 | 5 | 0 | | | | | | | | 2 | 2 | 2 | 2 | 2 | |
| Louisiana | 2 | 2 | 0 | 2 | 4 | | | | | 0 | 1 | 4 | 0 | | | | | | | | | | | | | | | | | |
| Maine | | | | | | | | | | 0 | 0 | 4 | 0 | | | | | 0 | 0 | 4 | 0 | | | | | 0 | 0 | 4 | 0 | |
| Maryland | | | | | | 1 | 0 | | | | 0 | 6 | 0 | | | | | | | | | | | | | 0 | 1 | 5 | 0 | |
| Massachusetts | | | | | | | | | | 0 | 0 | 5 | 0 | 0 | 0 | 4 | 0 | | | | | | | | | | 0 | 0 | 5 | 0 |
| Michigan | 2 | 2 | 0 | 0 | 5 | | | | | 0 | 1 | 5 | 0 | 0 | 0 | 4 | 0 | 1 | 0 | 5 | 0 | | | | | | | | | |
| Minnesota | 4 | 3 | 0 | 0 | 5 | 0 | 0 | 4 | 0 | 0 | 0 | 5 | 0 | 0 | 0 | 5 | 0 | 0 | 0 | 5 | 0 | | | | | | | | | |
| Mississippi | 5 | 4 | 4 | 88 | 6 | 0 | 0 | 2 | 0 | 0 | 0 | 2 | 0 | | | | | | | | | | | | | 0 | 0 | 2 | 0 | |
| Missouri | 7 | 5 | 0 | 6 | 5 | 0 | 0 | 5 | 0 | 0 | 0 | 5 | 0 | 0 | 0 | 4 | 0 | | | | | | | | | | | | | |
| Montana | | | | | | | | | | | | | | | | | | 0 | 0 | 2 | 0 | | | | | | | | | |
| Nebraska | | | | | | | | | | | | | | 1 | 0 | 0 | 0 | | | | | | | | | | | | | |
| Nevada | | | | | | | | | | | | | | | | | | 0 | 0 | 2 | 0 | | | | | | | | | |
| New Hampshire | | | | | | | | | | 0 | 0 | 4 | 0 | | | | | 0 | 0 | 4 | 0 | | | | | | 0 | 0 | 4 | 0 |
| New Jersey | | | | | | | | | | 0 | 0 | 5 | 0 | | | | | | | | | | | | | | | | | |
| New Mexico | 4 | 2 | 0 | 0 | 5 | 0 | 0 | *4 | C | 0 | 0 | 4 | 0 | | | | | | | | | | | | | | | | | |
| New York | | | | | | | | | | 0 | 2 | 5 | 0 | 0 | 0 | 4 | 0 | | | | | | | | | | | | | |
| North Carolina | | | | | | 0 | 0 | 4 | 5 | 1 | 2 | 6 | 0 | 0 | 2 | 5 | 0 | | | | | | | | | | | | | |
| North Dakota* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ohio | 4 | 1 | 0 | 1 | 5 | | | | | 1 | 8 | 6 | 0 | | | | | | | | | | | | | 0 | 0 | 5 | 0 | |
| Oklahoma | 8 | 4 | 0 | 50 | 7 | 0 | 0 | 6 | 6 | 0 | 2 | 5 | 0 | 2 | 0 | 4 | 0 | 0 | 0 | 2 | 0 | | | | | 0 | 0 | 6 | 4 | |
| Oregon | | | | | | 0 | 0 | 0 | ? | | | | | | | | | 0 | 0 | 2 | 0 | | | | | | | | | |
| Pacific Area* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pennsylvania | | | | | | 0 | 0 | 0 | 3 | 2 | 29 | 6 | 4 | 0 | 0 | 5 | 4 | | | | | | | | | 0 | 4 | 7 | 5 | |
| Puerto Rico | | | | | | 0 | 0 | *3 | C | 0 | 0 | *3 | C | | | | | | | | | | | | | | | | | |
| Rhode Island | | | | | | | | | | 0 | 1 | 4 | 0 | 0 | 0 | 2 | 0 | | | | | | | | | | 0 | 0 | 4 | 0 |
| South Carolina | 1 | 1 | 0 | 0 | 5 | | | | | 0 | 2 | 5 | 0 | | | | | | | | | | | | | | | | | |
| South Dakota | | | | | | | | | | | | | | | | | | | | | | | | | | 0 | 0 | 5 | 0 | |
| Tennessee | 10 | 4 | 2 | 105 | 6 | 0 | 0 | *5 | C | 0 | 1 | 5 | 0 | 0 | 0 | 5 | 0 | | | | | 0 | 0 | | | 0 | 0 | *4 | C | |
| Texas | 23 | 5 | 22 | 150 | 7 | 0 | 1 | 5 | 4 | 2 | 4 | 5 | 0 | | | | | | | | | | | | | 5 | 0 | 5 | 4 | |
| Utah | 1 | 1 | 0 | 1 | 2 | | | | | 1 | 4 | 3 | 2 | | | | | 1 | 4 | 4 | 2 | | | | | | | | | |
| Vermont | | | | | | | | | | 0 | 0 | 4 | 0 | | | | | 0 | 0 | 4 | 0 | | | | | | 0 | 0 | 4 | 0 |
| U.S. Virgin Is.* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Virginia | | | | | | | | | | 0 | 0 | 5 | 0 | | | | | | | | | | | | | | 0 | 0 | 4 | 0 |
| Washington* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| West Virginia | 2 | 2 | 0 | 0 | 4 | | | | | 0 | 1 | 4 | 0 | | | | | | | | | | | | | | 0 | 0 | 3 | ? |
| Wisconsin | 6 | 2 | 0 | 6 | 5 | | | | | 0 | 1 | 4 | 0 | | | | | | | | | | | | | | | | | |
| Wyoming* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

- * Includes crop damage
- C Crop damage
- * No occurrence of storms or unusual weather phenomena reported.
- # Includes heavy sleet storm
- # Freezing drizzle and freezing rain, commonly known as glaze
- @ For breakdown of "All Others", and for detailed listing of other storms, see the Environmental Data Service, ESSA, monthly publication STORM DATA.
- @ Fog
- + Storm damages are placed in categories varying from 1 to 9 as follows:
 - 1 Less than \$50
 - 2 \$50 to \$500
 - 3 \$500 to \$5,000
 - 4 \$5,000 to \$50,000
 - 5 \$50,000 to \$500,000
 - 6 \$500,000 to \$5,000,000
 - 7 \$5,000,000 to \$50,000,000
 - 8 \$50,000,000 to \$500,000,000
 - 9 \$500,000,000 to \$5,000,000,000

GENERAL SUMMARY OF RIVER AND FLOOD CONDITIONS

APRIL 1970

Elmer R. Nelson, Office of Hydrology

The most extensive flooding during April occurred in the Arkansas Basin. Most tributary streams experienced some flooding. Bird Creek in Oklahoma crested at its highest level since 1966. Crests along the Arkansas River at Van Buren, Ark., were the highest since 1961 and at Ralston and Ponca City, Okla., the highest since 1964. At least two persons drowned in the high water. Considerable damage resulted to growing crops.

Damaging floods occurred in the Tombigbee Basin in Mississippi and Alabama for the second consecutive month. Damage was rather extensive and slightly higher than in March as crops were further advanced.

ST. LAWRENCE DRAINAGE

Lake Michigan--The snowstorm of April 1-2 resulted in a snow cover of 9 to 15 inches over the lower Grand River Basin in Michigan. The water equivalent of the snow cover was slightly over 2 inches. Snowmelt was very rapid as temperatures rose into the 50's and 60's by April 8. Maximum river stages reached on the 12th and 13th were well below flood stage except in the lowlands where some minor flooding occurred.

Lake Erie--Minor overflow occurred on the St. Mary's and Maumee Rivers in Indiana and on the St. Joseph River in Ohio between the 20th and 25th. No damage resulted from the light flooding.

Heavy rainfall on April 1 caused minor flooding of a few streams in eastern New York in areas of poor drainage. Conewango Creek in Cattaraugus County overflowed Flat Iron Road. In Erie County, Delaware Creek overflowed route 323, Kane Road, in North Collins, N. Y.

Lake Ontario--Minor flooding occurred in the Genesee Basin in New York on April 2-4. State route 258 across the Valley, west from Groveland, N. Y., was flooded, requiring traffic to be rerouted via Mt. Morris, N. Y. With no crops in progress, damage was minor.

ATLANTIC SLOPE DRAINAGE

Rain and snowmelt in the Susquehanna Basin early in the month caused slight overflows on streams in New York and minor to moderate flooding on streams in Pennsylvania. Small stream flooding was widespread throughout the drainage. The Juniata Basin in Pennsylvania was the hardest hit, but no serious flooding was reported.

Heavy precipitation on the 13th-14th and 23d-24th caused flash flooding of small streams in the Metropolitan Washington, D. C., area. The second period of precipitation caused minor flooding on the Monocacy River at Frederick, Md.

Heavy precipitation during the 48-hour period ending at 8 a.m. on the 3d caused up to 3 feet of flooding on the Neuse River at Smithfield, N. C., and up to 4 feet of overflow on the lower Cape Fear River. No damage was reported.

Streams in South Carolina were at a high level in the beginning of the month with general flooding occurring over the central and eastern portion of the state. Rainfall during the first 3 days of the month caused additional overflow which was confined mostly to swampland, pastureland, and river bottom croplands. Flooding of swampland along the Pee Dee below Cheraw, S. C., to Peedee, S. C., and along the lower Edisto was moderate. Lumbering interests continued to suffer

heavy losses due to interruptions of work and inability to use heavy equipment. Flood waters receded slowly in the swamplands.

Flooding along the lower Savannah and the middle and lower Ogeechee Rivers in Georgia continued into April from the heavy rains during the latter part of March. The flood damage was estimated to be light.

EAST GULF OF MEXICO DRAINAGE

General rains during the last week of March and the first week of April caused extensive flooding along the Flint River and some of its tributaries in Georgia. The heaviest rainfall occurred over west-central Georgia where 24-hour amounts of 4 to 5 inches were recorded on March 30-31. Precipitation amounts on April 1-2 were light to moderate with most amounts being less than 1 inch. The most extensive flooding was in the vicinity of Albany, Ga., where the Flint River crested 10.6 ft. above flood stage on April 2. Downstream the Flint River reached levels 4 to 5 feet above flood stage. The Apalachicola River at Blountstown, Fla., had receded to 3 feet above flood stage by the end of March from a crest of 21.7 ft. (flood stage 15 ft.) on March 26. The rains prolonged the flooding and produced a secondary crest on April 3 slightly lower than the initial crest.

Heavy rains (in excess of 4 inches) during the latter part of March caused nearly 8 feet of flooding at Newton, Ala., on April 1. The flooding downstream at Caryville, Fla., was considerably lighter. The flood damage, estimated at \$700,000, was mainly to agriculture and public roads.

The lower Tombigbee was above flood stage and receding on April 1. It crested at Jackson, Ala., nearly 10 feet above flood stage on the same date. Heavy rainfall on April 16-17, followed by additional rainfall on the 25th-27th caused sharp rises and additional flooding near the end of the month. Stations along the upper rivers crested in April, but flooding continued through early May. Damage was rather extensive and slightly higher than in March, because crops were further advanced.

The flooding on the lower Pearl River in Louisiana in the beginning of the month was due to heavy rains on March 17-21. Additional rainfall on April 1-2, ranging from 0.5 inch to more than 4 inches, extended the flooding to April 9 at Pearl River, La. Locally heavy rainfall produced minor flooding at Bogalusa, La. near the middle and the end of the month. Flooding was confined to low-lying areas adjacent to the river. Discharge from the Ross Barnett Reservoir produced rising stages at Jackson, Miss., during the first and last weeks of the month. The water was kept within the levee system and the high water on the 22d-28th was of little consequence as far as flooding was concerned.

MISSISSIPPI SYSTEM

Upper Mississippi Basin--The Big Muddy River at Murphysboro, Ill., continued in flood from March 26 to April 7. The crest on March 31 was 5.8 ft. above flood stage. No appreciable damage occurred as the flooding was confined mostly to low-lying farmland and that had not yet been seeded.

Very heavy rains of 2 to over 6 inches on the 18th-19th produced flooding on streams in northeastern Missouri and southern Illinois. The Mississippi River exceeded flood stage from Louisiana, Mo., downstream to Chester,

APRIL 1970

Ill., but crests were only slightly above bankfull stage. The flooding was generally minor and restricted to low farmlands. No significant damage resulted since the flooding occurred prior to the planting of crops.

Missouri Basin--Minor flooding occurred in the Apple Creek basin at McKenzie, N. Dak., on the 28th. No damage resulted.

Mild weather during the early part of April melted most of the snow cover over northwestern Iowa, causing the upper reaches of the Little Sioux River to rise slightly above flood stage at Spencer, Iowa, on the 6th-7th. Downstream at Linn Grove, Iowa, the river approached within 0.2-foot of flood stage on the 9th. No damage resulted from the 0.5-foot overflow at Spencer.

Heavy rains (3 to 5 inches) on the 17th-18th caused flooding in east-central Kansas streams. Major bottom-land flooding developed along Pottawatomie Creek, the lower Marais des Cygne, and Marmaton Rivers with overflows of 5 to 6 feet. Overflows lasted 4 or 5 days along the lower Marais des Cygne, and most seeded acreages in the inundated areas were drowned out. Damages were not large as the same areas were flooded late last fall and had not been replanted.

Snow, and rain on March 31 and April 1, produced slight overflows along Pottawatomie Creek and the lower Marais des Cygne River. Snow was 6 to 12 inches deep along the Marais des Cygne-Kansas divide, flood damages were not large due to the earliness of the season.

Very heavy rains of 2 to over 6 inches on the 18th-19th produced significant flooding on most streams in southwestern Missouri. The main stem of the Missouri River exceeded flood stage 1 to 2 feet in the lower portion. Flooding was generally minor and restricted to low farmlands. No significant damage was reported since flooding occurred prior to the planting of crops.

Ohio Basin--Heavy rains and snowmelt caused minor flooding on the lower Allegheny and lower Monongahela Rivers in Pennsylvania on the 2d-4th. The rainfall exceeded 2 inches at many stations over the lower and middle Allegheny Basin. Storm totals were less over the Monongahela Basin. No significant damage resulted from this minor overflow.

Heavy thunderstorms over the upper Monongahela Basin on the 23d-24th caused minor flooding on the Tygart and West Fork Rivers in West Virginia. Storm totals ranged from 2 to over 3 inches. Flood damages were minor.

Locally heavy rain during the night of April 1-2 produced nearly 2 feet of flooding on the Hocking River at Enterprise, Ohio, on the 2d-3d. Damages were minor compared to previous floods. The Corps of Engineers estimated the damages at \$90,000. Heavy thunderstorms during the 30-hour period ending on the morning of the 24th produced 1 foot of flooding on the Hocking River and 4.5 to 6 ft. of flooding on the Kanawha River in West Virginia. Damage in the headwater areas of the Hocking River was relatively minor. Along the Little Kanawha River near Creston, W. Va., several homes were flooded and roads and bottom lands were partially inundated.

Heavy rains and thunderstorms, lasting about 16 hours, caused flash floods on many of the smaller streams flowing into the lower Scioto River in Ohio on the 2d and 3d. The main stem of the Scioto overflowed during the next few days, forcing grazing cattle to higher ground and cutting off some local traffic.

Several isolated rural families had to leave their homes during the night of the 2d. Heavy rain during the fourth week of the month produced bankfull stages in the upper Scioto and minor flooding along the lower Scioto. Other than inconvenience to a number of families, no serious property damage resulted. The Ross County highway department estimated damage to secondary roads and bridges at more than \$100,000.

Minor flooding resulted along the Little Miami and the Miami Rivers in Ohio on April 2, from locally heavy rain. Light flooding occurred on tributaries in the upper Kentucky Basin on the 28th-29th. Damages were relatively light.

Heavy rains during the 48-hour period ending on the morning of the 3d caused up to 9 ft. of flooding on Brashears Creek at Taylorsville, Ky. Minor flooding occurred along the Rough and Green Rivers in Kentucky. Rainfall amounts of nearly 4 inches occurred in some sections.

The flooding in the Wabash Basin in Indiana during the latter part of April and the first part of May was due to rainfall in excess of 3 inches on the 19th-20th. Numerous secondary roads were flooded. There was minor damage to wheat crops. The more serious effect was the delay in the plowing of bottom lands where fields remained partially or wholly covered with water.

Moderate flooding occurred in the upper Cumberland River Basin in southeastern Kentucky on April 28-May 1. This flooding was due to moderate to heavy rains on the 27th that averaged 3.5 to 4 inches during the 24-hour period ending at 7 a.m. on the 28th. Light to moderate rains that preceded on the 24th-26th saturated the soil and filled small pools. Damage was relatively small.

Heavy rains during the 24-hour period ending on the morning of the 2d caused flooding on the Elk River and at scattered points along the main stem of the Tennessee River. Heavy rains during the 48-hour period ending on the 26th caused additional flooding on the Elk River and at scattered points along the Tennessee.

An intense storm moved into the Ohio Valley during the night of April 1-2. This storm brought warm air over the snow cover that was still heavy over the higher elevations of the headwater streams. Heavy flow from the Allegheny and Monongahela Rivers resulted in minor flooding along the main stem of the Ohio River at Pittsburgh, Pa., on the 3d. The upper Ohio River crested near bankfull stage with slight overflows at McMechen and Wellsburg, W. Va., and at Steubenville, Ohio. There was some basement flooding in Pittsburgh. Losses were light.

Rainfall amounts of nearly 4 inches fell in some sections of the Ohio Valley on the 2d. The Ohio River rose rapidly and by the 6th most points along the Ohio River below Madison, Ind., were in flood. Crests between the 5th and 10th were generally 5 to 6 ft. above flood stage, except 9 to 11 ft. above flood stage at Shawneetown, Ill., and Fords Ferry, Ky.

Another rise to above flood stage occurred along the Ohio at and below Tell City, Ind., on the 27th-29th. A line of thunderstorms became stationary over southeastern Illinois and southern Indiana on the evening of the 27th and early on the 28th. Rainfall amounts along the Ohio were very heavy and ranged between 3.5 and 6 inches. The crests in the reach from Tell City, Ind., to Fords Ferry, Ky., on April 30 were generally 3 ft. lower than the earlier crests. In the reach at and below Golconda, Ill., the crests early in May were 1.5 to 7.5 ft. higher than in April.

White Basin--The Cache River at Patterson, Ark., continued in flood from March 4 to April 12, a period of 40 days. Additional heavy rain on the 23d-26th caused additional flooding along the Cache River beginning on the 24th. The stream was still rising at the end of the month and crested at Patterson on May 3, 2.6 ft. above flood stage.

The 3- to 6-inch rains on the 23d-26th caused additional flooding in the White Basin. The Black River was already at a high level and rose above flood stage at Black Rock, Ark., on the 24th for the second time during the month. Flooding began at Pochontas, Ark., on the 25th and both stations continued in flood into May. The Little Red River at Judsonia, Ark., rose 1 foot above flood stage on the 26th. The main stem of the White River rose above flood stage at Batesville, Ark., on the 25th for the second time during April. Flooding was still in progress in the middle and lower reaches by the end of the month. The crests were generally 1 to 3 ft. above flood stage. The most severe flooding occurred on the Black River at Black Rock, Ark., where the crest was 9 ft. above flood stage on the 26th.

Arkansas Basin--During April and the first part of May, most streams in the Arkansas Basin experienced some flooding. They were above flood stage from a few hours to several days. Bird Creek at Sperry and Owasso, Okla., crested higher than at any time since 1966. The extent of the flooding ranged from less than a foot on the Fourche Maline at Red Oak, Okla., to almost 10 ft. above flood stage on Bird Creek at Avant, Okla. This flooding was due to heavy rain associated with slow moving cold fronts. The rainfall on the 17th-19th totalled 3 to 6 inches and on the 23d-26th, 3 to 5 inches. Previous heavy rains had left many streams about one-half bankfull stage. Two-to 4-inch rains in northwestern Oklahoma on the 17th-18th caused minor flooding on the North Canadian River at Selling, Okla., on the 18th-19th. Only minor bottom-land flooding resulted from the 1-foot overflow. Three- to 5-inch rains in east-central Oklahoma on the 29th caused light flooding of the Deep Fork River near and below Beggs, Okla., during the night of the 29th-30th. Heavy rains totalling 3 to 4.5 inches during the night of the 28th and the early morning of the 29th in the metropolitan area of Oklahoma City, Okla., resulted in local flooding. Small streams rose briefly out of their banks during the morning of the 30th.

The crests along the Arkansas River at Van Buren, Ark., were the highest since 1961 and at Ralston and Ponca City, Okla., the highest since 1964. Keystone Reservoir crested at 733.29 ft., the highest level since the project was placed in flood control operation in 1964.

Considerable damage occurred in the basin to growing crops. At least two persons lost their lives due to drowning.

Red Basin--Minor flooding occurred on the clear Boggy and Kiamichi Rivers in southeastern Oklahoma and on the Sulphur River in northeastern Texas during the latter part of April. Rainfall was heavy the entire month, ranging up to more than 8 inches in southeastern Oklahoma. Nearly one-half of the rainfall occurred during the period from the 24th through the 26th.

Lower Mississippi Basin--Minor flooding occurred on the St. Francis River in Missouri from March 29 to

April 4. Heavy rain on the 18th-19th caused additional flooding on the St. Francis River beginning at Fisk, Mo., on the 21st and at St. Francis, Ark., on the 24th. Crests ranged from 3 to 4 ft. above flood stage on the 24th-28th. Flooding continued into May.

The Big Black River at Bovina, Miss., continued in flood from March 27 to April 5. The high water kept farmers from preparing the lowlands for spring planting. Timber cutting operations were discontinued during the high water. Heavy rains in the headwaters of the Big Black River on the 25th-27th caused additional flooding at Bovina, Miss., beginning on April 28. Lowland flooding spread over the middle and lower reaches of the Big Black River. Farmland and woodlands adjacent to the river remained under water during the remainder of the month and the first part of May. The crest at Bovina on May 4 was 7 ft. above flood stage. Some flash flooding occurred at Durant, Miss., and in the vicinity of Valden, Miss., as local streams inundated the highways.

The Lower Mississippi River reached flood stage at Caruthersville, Mo., on April 28. It crested on May 8, 5.2 ft. above flood stage.

WEST GULF OF MEXICO DRAINAGE

The minor flooding along the Sabine River in the beginning of April was due to rainfall during March. The crests during the latter part of March ranged from 3.5 ft. above flood stage at Mineola, Texas, to 7 ft. above flood stage at Gladewater, Texas.

The San Jacinto River was overflowing the spillway at Lake Houston, Tex., at the beginning of the month from rainfall during March. It receded below the spillway on April 2, but rose again above the spillway on the 9th and continued overflowing into May. The highest level reached during both rises was 45.3 ft. on April 12. This was 0.8 foot above the spillway.

Heavy rains on the 19th caused minor flooding on the Neches River near Alto, Tex., on the 20th-25th and on the Navasota River near Bryan, Tex., on the 21st-24th. The crests were less than 1 foot above flood stage.

Heavy rains during the 48-hour period ending at 7 a.m. on the 26th, produced flooding in the Sabine and Trinity River Basins beginning on the 26th. Flooding along the main rivers was minor. Heavy rains on the 25th caused flash flooding along Red Oak Creek which flows into the Trinity River above Rosser, Tex. The creek reached its highest level during the evening of the 25th. Four persons were drowned when their car was swept into Red Oak Creek between Waxahachie and Ferris, Tex. A fifth person was drowned as her car was washed off a service road on Interstate Highway 45, south of Ferris, Texas. Otherwise, damage and loss due to the flooding was minor.

PACIFIC SLOPE DRAINAGE

Columbia Basin--April was unusually cold throughout the basin. The normal April snowmelt was delayed by much below normal temperatures. Monthly temperatures were 6° to 8° below normal over a great portion of Idaho. Pocatello, in southeastern Idaho, experienced the coldest April in 40 years. As a consequence of the cold temperature regime, runoff from all parts of the basin was retarded, and many stream gaging stations reported the lowest April flow in about 45 years.

West of the Cascades, a brief intense storm on the 9th, with residual showers on the 10th produced a minor

GENERAL SUMMARY OF RIVER AND FLOOD CONDITIONS-Continued

APRIL 1970

rise on streams in the Willamette Basin. A similar earlier storm east of the Cascades caused a rise in flow on the Clearwater River (lower Snake tributary) from 12,000 cfs. on the 6th to a peak of 24,500 cfs. on the 11th.

The average April stage of the Columbia River at Vancouver, Wash., was 4.7 ft., 3.3 ft. lower than the long term normal stage. This was not as low as in the

recent years of 1968 and 1964 when the average April stage was 3.9 ft. and 4.5 ft., respectively.

Puget Sound Drainage-- The Nooksack River at Deming, Wash., rose to within 0.2 foot of flood stage on the 9th. This rise resulted from rains totalling 3 to 4 inches on the 8th-9th.

FLOOD STAGE DATA

(All dates in April unless otherwise specified)

APRIL 1970

| River and station | Flood stage | Above flood stages -dates | | Crest* | |
|---|-------------|---------------------------|-------|----------------|-------------------|
| | | From-- | To-- | Stage | Date |
| ST. LAWRENCE DRAINAGE | | | | | |
| | <i>Ft.</i> | | | <i>Ft.</i> | |
| ST. MARYS: Decatur, Ind. | 10 | 20 | 23 | 17.9 | 20-21 |
| ST. JOSEPH: Montpelier, Ohio | 10 | 20 | 25 | 11.4 | 23 |
| MARYS: Fort Wayne, Ind. | 15 | 20 | 22 | 16.8 | 21 |
| Lake Ontario | | | | | |
| Canaseraga Creek: Groveland, N. Y. | 11 | 2 | 2 | 12.2 | 2 |
| Oatka Creek: Garbutt, N. Y. | 5 | 3 | 4 | 5.3 | 4 |
| Genesee: Scio, N. Y. | 8 | 2 | 2 | 8.2 | 2 |
| ATLANTIC SLOPE DRAINAGE | | | | | |
| TO WANAQUE: Bound Brook, N. J. | 6 | 2 | 3 | E 6.0 | 3 |
| Wanaque: Wanaque, N. J. | 5 | 2 | 5 | 14.3 | 3 |
| Wanaque: Mahwah, N. J. | 8 | 2 | 4 | 9.1 | 2 |
| Pompton: Pompton Lakes, N. J. | 2 | 2 | 4 | 2.4 | 3 |
| Pompton: Pompton Plains, N. J. | 12 | 2 | 5 | 14.3 | 3 |
| Passaic: Chatham (nr), N. J. | 6 | 2 | 5 | 6.4 | 2,4 |
| Little Falls, N. J. | 6 | 2 | 7 | 8.65 | 5 |
| Millstone: Blackwells Mills, N. J. | 7 | 2 | 4 | 11.2 | 3 |
| Raritan: Manville, N. J. | 12 | 2 | 3 | 18.2 | 3 |
| Bound Brook, N. J. | 8 | 2 | 3 | 13.8 | 3 |
| Assunpink Creek: Trenton, N. J. | 5 | 2 | 2 | 6.0 | 2 |
| Rancocas Creek: Pemberton, N. J. | 2.7 | 16 | 17 | 2.85 | 16 |
| Tioughnioga: Whitney Point, N. Y. | 12 | 10 | 10 | 12.3 | 10 |
| Chenango: Sherburne, N. Y. | 8 | 3 | 3 | 8.9 | 3 |
| | | 9 | 10 | 8.7 | 9 |
| Chemung: Chemung, N. Y. | 12 | 3 | 3 | 14.2 | 3 |
| Tunkhannock: Dixon, Pa. | 9 | 2 | 2 | 11.8 | 3 |
| Frankstown Branch Juniata: Williamsburg, Pa. | 12 | 2 | 2 | 13.5 | 2 |
| Juniata: Mapleton Depot, Pa. | 20 | 3 | 3 | 20.8 | 3 |
| Lewistown, Pa. | 23 | 3 | 3 | 24.3 | 3 |
| Susquehanna: Bainbridge, N. Y. | 13 | 3 | 4 | 14.8 | 3 |
| | | 9 | 11 | 14.6 | 10 |
| Conklin, N. Y. | 11 | 3 | 5 | 12.5 | 3 |
| | | 9 | 12 | 12.05 | 10 |
| Vestal, N. Y. | 18 | 3 | 4 | 18.5 | 3 |
| Towanda, Pa. | 16 | 3 | 3 | 16.0 | 3 |
| Neuse: Neuse, N. C. | 14 | 3 | 4 | 14.1 | 3 |
| Smithfield, N. C. | 13 | 2 | 6 | 16.0 | 4 |
| | | 16 | 17 | 13.5 | 17 |
| Goldsboro, N. C. | 14 | 7 | 10 | 14.9 | 9 |
| Cape Fear: Lock No. 3, Wm. O. Huske L&D, Tarheel, N. C. | 42 | 3 | 5 | 45.7 | 14 |
| Lock No. 2, Elizabethtown, N. C. | 20 | 3 | 6 | 23.9 | 4 |
| Lumber: Lumberton, N. C. | 9 | Mar. 22 | 13 | 11.1 | Mar. 24 |
| Waccamaw: Conway, S. C. | 7 | 7 | 8 | 7.0 | 7-8 |
| Little Pee Dee: Galivants Ferry, S. C. | 9 | Mar. 9 | 8 | 9.7
9.5 | Mar. 28
2 |
| Pee Dee: Peedee, S. C. | 19 | 1 | 10 | 20.3 | 7 |
| Broad: Blair, S. C. | 14 | 2 | 3 | 15.4 | 2 |
| Santee: Jamestown, S. C. | 9 | Mar. 24 | 6 | 14.0 | Mar. 31 |
| North Fork Edisto: Orangeburg, S. C. | 8 | 1 | 5 | 8.7 | 2 |
| Edisto: Givhans Ferry, S. C. | 10 | Mar. 24 | 13 | 13.2 | 6 |
| Savannah: Clio, Ga. | 11 | 25 | 12 | 12.4
#13.2 | Mar. 29-30
7-8 |
| Ogeechee: Dover, Ga. | 7 | 29 | 14 | 7.9
8.6 | 31
7 |
| Eden, Ga. | 9 | Mar. 24 | 20 | 9.8
11.7 | Mar. 26
7-8 |
| ATLANTIC SLOPE DRAINAGE (Contd) | | | | | |
| Ocmulgee: Lumber City, Ga. | 15 | Mar. 31 | 9 | 18.2 | 2 |
| Oconee: Mount Vernon, Ga. | 16 | Mar. 27 | 9 | 19.15 | Mar. 28 |
| Altamaha: Charlotte, Ga. | 15 | Mar. 27 | 14 | 21.45 | 3 |
| Doctortown, Ga. | 10 | 5 | 8 | 10.0 | 5-6 |
| Satilla: Waycross, Ga. | 16 | 2 | 4 | 16.0 | 2 |
| EAST GULF OF MEXICO DRAINAGE | | | | | |
| Flint: Albany, Ga. | 20 | 1 | 4 | #30.6 | 2 |
| Newton, Ga. | 24 | 3 | 5 | #28.6 | 4 |
| Bainbridge, Ga. | 25 | 1 | 7 | #28.85 | 4 |
| Apalachicola: Blountstown, Fla. | 15 | Mar. 22 | 11 | #21.7
#21.2 | Mar. 26
3 |
| Choctawhatchee: Newton, Ala. | 19 | Mar. 31 | 2 | 27.9 | 1 |
| Caryville, Fla. | 12 | 2 | 7 | #13.5 | 5 |
| Alabama: Claiborne, Ala. | 40 | Mar. 24 | D | 44.7 | Mar. 29 |
| East Fork Tombigbee: Fulton, Miss. | 16 | 2 | 4 | 16.5 | 5 |
| | | 18 | 22 | 17.5 | 20 |
| | | 27 | 29 | 17.65 | 27 |
| Tibbee: Tibbie, Miss. | 23 | 20 | 20 | 23.3 | 20 |
| | | 22 | 22 | 23.7 | 22 |
| | | 28 | 29 | 25.5 | 28 |
| Noxubee: Macon, Miss. | 26 | Mar. 21 | 21 | 26.8 | Mar. 21 |
| Black Warrior: Oliver L&D, Tuscaloosa, Ala. | 47 | 27 | 27 | 49.3 | 27 |
| Warrior L&D, Ala. | 30 | 28 | May 1 | 33.5 | 30 |
| Tombigbee: Amory, Miss. | 20 | 2 | 5 | 22.9 | 3 |
| Aberdeen, Miss. | 34 | 27 | May 1 | E38.0 | 28 |
| Columbus, Miss. | 29 | 29 | May 1 | 31.2 | 30 |
| Gainesville, Ala. | 36 | Mar. 22 | 2 | 46.8 | Mar. 28 |
| Demopolis, Ala. | 48 | Mar. 22 | 4 | 59.8 | Mar. 27 |
| Jackson L&D, Ala. | 43 | Mar. 23 | 9 | 52.6 | 1 |
| | | 25 | May 8 | 48.1 | 6 |
| Pearl: Jackson, Miss. | 18 | Mar. 21 | 1 | 27.4 | Mar. 28 |
| | | 22 | 28 | 20.8 | 25 |
| Bogalusa, La. | 15 | Mar. 22 | 8 | 18.2 | 4 |
| | | 15 | 17 | 15.8 | 15 |
| | | 29 | 30 | 15.1 | 29 |
| Pearl River, La. | 12 | Mar. 26 | 9 | 12.5 | 6 |
| MISSISSIPPI SYSTEM | | | | | |
| Upper Mississippi Basin | | | | | |
| Salt: New London, Mo. | 19 | 19 | 22 | 23.5 | 21 |
| Sangamon: Monticello, Ill. | 12 | 20 | 25 | 14.45 | 21 |
| Riverton, Ill. | 18 | 22 | 1 | 20.8 | 27 |
| Petersburg, Ill. | 497 | 25 | 28 | 498.7 | 28 |
| La Moine: Ripley, Ill. | 22 | 20 | 23 | 23.7 | 20 |
| Illinois: Meredosia, Ill. | 10 | 12 | 1 | 18.8 | 30 |
| Meramec: Pacific, Mo. | 11 | 20 | 22 | 13.8 | 22 |
| Kaskaskia: Shelbyville, Ill. | 13 | 20 | 1 | 17.9 | 28 |
| Vandalia, Ill. | 18 | 20 | 1 | 26.0
23.4 | 21
25 |
| New Athens, Ill. | 25 | 28 | 28 | 25.1 | 28 |
| Big Muddy: Murphysboro, Ill. | 16 | Mar. 26 | 7 | 21.8 | Mar. 31 |
| | | 21 | 1 | 23.5 | 25 |
| Mississippi: Louisiana, Mo. | 15 | 21 | 21 | 15.0 | 21 |
| Clarksville, Mo. | 25 | 21 | 21 | 25.3 | 21 |
| Grafton, Ill. | 18 | 21 | 25 | 18.8 | 23 |

FLOOD STAGE DATA

(All dates in April unless otherwise specified)

APRIL 1970

| River and station | Flood stage | Above flood stages -dates | | Crest* | |
|-------------------------------------|-------------|---------------------------|-------|--------|-------|
| | | From- | To- | Stage | Date |
| MISSISSIPPI SYSTEM (Continued) | | | | | |
| Ft. | | | | | |
| Upper Mississippi Basin (Continued) | | | | | |
| Mississippi: Alton, Ill. | 21 | 22 | 25 | 21.25 | 22 |
| Chester, Ill. | 27 | 22 | 26 | 27.5 | 25 |
| Missouri Basin | | | | | |
| Little Sioux: Spencer, Iowa | 10 | 6 | 7 | 10.5 | 6 |
| Big Creek: Paxico, Kans. | 19 | 18 | 18 | 20.1 | 18 |
| Neosho: Kansas City, Mo. | 21 | 18 | 19 | 22.8 | 18 |
| Little Blue: Lake City, Mo. | 18 | 3 | 3 | 18.55 | 3 |
| | | 18 | 20 | 24.8 | 19 |
| Grand: Chillicothe, Mo. | 24 | 19 | 19 | 26.8 | 19 |
| | 26 | 19 | 22 | 31.2 | 20 |
| | 12 | 20 | 20 | 12.8 | 20 |
| Marion: Prairie Hill, Mo. | 15 | 18 | 20 | 18.8 | 19 |
| Wine: Clifton City, Mo. | 19 | 19 | 20 | 26.2 | 19 |
| | | 29 | 2 | 26.85 | May 1 |
| Backwater: Valley City, Mo. | 22 | 1 | 3 | 28.3 | 2 |
| | | 19 | 19 | 29.1 | 19 |
| | | 30 | May 1 | 26.85 | May 1 |
| | 25 | 3 | 7 | 29.1 | 5 |
| | | 19 | 24 | 26.05 | 19 |
| | | | | 30.8 | 22 |
| Stawatic Creek: Garnett, Kans. | 26 | 1 | 2 | #27.0 | 2 |
| | | 18 | 19 | #31.0 | 19 |
| | 23 | 2 | 3 | #24.6 | 3 |
| | | 18 | 20 | #29.5 | 19 |
| Marion: Nevada, Mo. | 22 | 2 | 6 | 25.2 | 4 |
| Fort Scott, Kans. | 38 | 18 | 20 | 43.0 | 19 |
| Little Osage: Horton, Mo. | 23 | 2 | 7 | 25.4 | 4-5 |
| | | 19 | 22 | E28.0 | 20 |
| Big Creek: Blairstown, Mo. | 20 | 1 | 4 | 23.1 | 1 |
| | | 19 | 22 | 23.2 | 19 |
| South Grand: Urich, Mo. | 22 | 1 | 4 | 24.4 | 2 |
| | | D | D | E25.6 | 20 |
| | 19 | 2 | 7 | 23.9 | 5 |
| | | 19 | 26 | 29.0 | 22 |
| Grand des Cygne: Reading, Kans. | 18 | 18 | 19 | 23.9 | 19 |
| Melvern, Kans. | 23 | 19 | 20 | 24.0 | 19 |
| Quenemo, Kans. | 28 | 19 | 20 | 28.4 | 19 |
| Osawatimie, Kans. | 28 | 19 | 22 | 34.9 | 20 |
| Lacygne, Kans. | 25 | 3 | 5 | 26.4 | 4 |
| | | 19 | 23 | 30.3 | 21 |
| Trading Post, Kans. | 24 | 19 | 24 | #26.9 | 20 |
| | | | | #27.5 | 22 |
| State Line, Kans. | 25 | 19 | 24 | #28.9 | 20 |
| | | | | #29.4 | 22 |
| Age: Schell City, Mo. | 25 | 2 | 11 | 29.45 | 6 |
| | | 19 | 30 | 31.9 | 23 |
| | 22 | 24 | 28 | 26.7 | 25 |
| | 23 | 24 | 24 | 23.6 | 24 |
| Missouri: Herman, Mo. | 21 | 20 | 26 | 23.2 | 21 |
| St. Charles, Mo. | 25 | 21 | 26 | 26.3 | 25 |
| Ohio Basin | | | | | |
| Leghenny: Lock 5, Freeport, Pa. | 21 | 3 | 3 | 21.3 | 3 |
| Gart: Belington, W. Va. | 14 | 24 | 25 | 14.9 | 24 |
| | 17 | 24 | 25 | 18.5 | 24 |
| St Fork: Weston, W. Va. | 17 | 24 | 24 | 17.8 | 24 |
| | 7 | 24 | 25 | 7.3 | 24 |
| Longahela: Lock 4, Charleroi, Pa. | 26 | 3 | 3 | 26.2 | 3 |
| | 19 | 2 | 3 | 19.5 | 3 |
| | | 3 | 3 | | |
| Little Kanawha: Glenville, W. Va. | 23 | 23 | 25 | 27.6 | 24 |
| Creston, W. Va. | 20 | 24 | 25 | 25.8 | 24 |

| River and station | Flood stage | Above flood stages -dates | | Crest * | |
|------------------------------------|-------------|---------------------------|------------|----------------------|---------------|
| | | From-- | To-- | Stage | Date |
| MISSISSIPPI SYSTEM (Continued) | <i>Ft.</i> | | | <i>Ft.</i> | |
| <u>Ohio Basin</u> (Continued) | | | | | |
| Hocking: Enterprise, Ohio | 12 | 2
24 | 3
26 | 13.9
12.7
13.1 | 2
24
25 |
| Paint Creek: Bourneville, Ohio | 10 | 2
25 | 3
26 | #17.7
#12.4 | 2
25 |
| Scioto: La Rue, Ohio | 11 | 2 | 3 | 11.3 | |
| Prospect, Ohio | 10 | 3 | 5 | 11.8 | 1 |
| Circleville, Ohio | 14 | 3
25 | 5
26 | 19.0
16.2 | 4
26 |
| Piketon, Ohio | 16 | 3
25 | 7
28 | 24.5
19.7 | 4
25 |
| Little Miami: Kings Mills, Ohio | 17 | 2 | 2 | E20.0 | 2 |
| Malford, Ohio | 12 | 2 | 2 | 13.65 | 2 |
| Perintown, Ohio | | 2 | 2 | 21.85 | 2 |
| Miami: Miamitown, Ohio | | 2 | 2 | 22.0 | 2 |
| South Fork Kentucky: Oneida, Ky. | 29 | 28 | 29 | 32.5 | 28 |
| Red: Clay City, Ky. | 19 | 29 | 29 | 20.7 | 29 |
| North Fork Kentucky: Jackson, Ky. | 29 | 29 | 29 | 29.75 | 29 |
| Brashears Creek: Taylorsville, Ky. | 20 | 2
29 | 3
30 | 28.7
22.0 | 2
2 |
| Rolling Fork: Boston, Ky. | 40 | 4
29 | 5
May 2 | 43.7
48.6 | 4
30 |
| Rough: Dundee, Ky. | 25 | 3 | 3 | 25.5 | 3 |
| Green: Munfordville, Ky. | 28 | 3 | 3 | 29.0 | 3 |
| Lock 6, Brownsville, Ky. | 18 | 3 | 4 | 19.8 | 4 |
| Lock 4, Woodbury, Ky. | 33 | 2 | 6 | 37.65 | 4 |
| Lock 2, Calhoun, Ky. | 23 | 4 | 11 | 26.3 | 8 |
| Vermillion: Danville, Ill. | 18 | 20 | 21 | 19.5 | 20 |
| Embarrass: Ste. Marie, Ill. | 18 | 21 | 1
2 | 20.7
21.20 | 21
26 |
| Lawrenceville, Ill. | 11 | 21 | May 5 | 20.1 | 28 |
| Eagle Creek: Zionsville, Ind. | 7 | 24 | 24 | 7.7 | 24 |
| Bowling Green, Ind. | 17 | 25 | 25 | 17.35 | 25 |
| East Fork White: Seymour, Ind. | 14 | 3
25 | 4
27 | 16.7
16.3 | 3
25 |
| White: Anderson, Ind. | 10 | 24 | 26 | 10.9 | 25 |
| Centerton, Ind. | 603 | 25 | 25 | 603.6 | 25 |
| Spencer, Ind. | 14 | 25 | 29 | 18.25 | 26 |
| Elliston, Ind. | 18 | 24 | 1/
2 | 23.1 | 27 |
| Newberry, Ind. | 18 | 29 | 29 | 18.0 | 29 |
| Edwardsport, Ind. | 15 | 24 | May 3 | 20.0 | 29 |
| Petersburg, Ind. | 16 | 25 | May 5 | 21.4 | May 1 |
| Hazleton, Ind. | 16 | 25 | May 6 | 22.2 | May 1 |
| Skillet Fork: Wayne City, Ill. | 13 | 20
26 | 23
30 | 17.45
18.55 | 21
29 |
| Little Wabash: Wilcox, Ill. | 16 | 20 | 1/
2 | 22.5 | 26 |
| Carmi, Ill. | 27 | 27 | 1 | 33.8 | May 2 |
| Wabash: Wabash, Ind. | 12 | 24 | 24 | 12.1 | 24 |
| Lafayette, Ind. | 11 | 3
20 | 4
May 2 | 11.8
18.7 | 24
21 |
| Covington, Ind. | 16 | 20 | May 1 | 22.8 | 22 |
| Montezuma, Ind. | 14 | 20 | May 5 | 24.7 | 25 |
| Clinton, Ind. | 18 | 20 | May 2 | 24.05 | 25 |

FLOOD STAGE DATA

(All dates in April unless otherwise specified)

APRIL 1970

| River and station | Flood stage | Above flood stages -dates | | Crest * | |
|---|-------------|---------------------------|---------|---------|----------|
| | | From- | To- | Stage | Date |
| MISSISSIPPI SYSTEM (Continued) | Ft. | | | Ft. | |
| Ohio Basin (Continued) | | | | | |
| Wabash: (Continued) | | | | | |
| Terre Haute, Ind. | 14 | 20 | 5 | 21.2 | 25 |
| Hutsonville, Ind. | 12 | 24 | May 3 | 23.9 | 26, 27 |
| Riverton, Ind. | 18 | 24 | May 3 | 21.2 | 28 |
| Vincennes, Ind. | 16 | 25 | May 6 | 23.2 | 28 |
| Mt. Carmel, Ill. | 17 | 26 | May 7 | 24.6 | 30-May 1 |
| New Harmony, Ind. | 15 | 27 | 1 | 18.5 | May 2 |
| Cumberland: Cumberland, Ky. | 7 | 28 | 28 | 8.5 | 28 |
| Baxter, Ky. | 16 | 28 | 28 | 19.8 | 28 |
| Barbourville, Ky. | 27 | 28 | May 1 | 35.8 | 29 |
| Williamsburg, Ky. | 21 | 29 | May 1 | 23.1 | 30 |
| South Chickamauga Creek: Chickamauga, (nr.) Tenn. | 10 | 2 | 4 | 12.7 | 3 |
| | | 26 | 27 | 10.6 | 27 |
| Elk: Fayetteville, (abv.) Tenn. | 18 | 2 | 3 | 19.1 | 2 |
| | | 26 | 29 | 20.4 | 27 |
| Fayetteville, Tenn. | 659 | 2 | 4 | 661.7 | 3 |
| | | 27 | 28 | 662.0 | 27 |
| Tennessee: Whitesburg, Ala. | 560 | 3 | 5 | 560.9 | 3 |
| | | 26 | 1/ | 561.2 | 29 |
| Florence, Ala. | 419 | 26 | 30 | 421.0 | 27 |
| Paducah, Ky. | 320 | 3 | 15 | 326.15 | 7 |
| Ohio: Pittsburgh, Pa. | 25 | 3 | 3 | 25.6 | 3 |
| Dam 13, McMechen, W. Va. | 37 | 3 | 4 | 37.6 | 4 |
| Wellsburg, W. Va. | 33 | 3 | 4 | 34.3 | 3 |
| Dam 41, Louisville, Ky. (LG) | 23 | 5 | 7 | 24.0 | 6 |
| Dam 41, Louisville, Ky. (LG) | 55 | 5 | 7 | 55.7 | 5 |
| Dam 43, Evans Landing, Ind. | 57 | 5 | 7 | 57.6 | 5, 6 |
| Dam 44, Leavenworth, Ind. | 53 | 4 | 9 | 57.7 | 5, 6 |
| Dam 45, Addison, Ky. | 47 | 4 | 9 | 50.8 | 6 |
| Tell City, Ind. | 38 | 3 | 10 | #43.1 | 7 |
| | | 28 | May 4 | #40.1 | 30 |
| Dam 46, Owensboro, Ky. | 41 | 6 | 9 | #41.9 | 7 |
| Dam 47, Newburgh, Ind. | 38 | 3 | 12 | #44.1 | 8 |
| | | 27 | May 6 | #41.9 | 30 |
| Dam 48, Cypress, Ind. | 38 | 4 | 13 | 43.7 | 9 |
| | | 28 | May 7 | 41.0 | 30 |
| Mt. Vernon, Ind. | 35 | 4 | 13 | 40.8 | 10 |
| | | 28 | May 8 | 38.1 | 30 |
| Dam 49, Uniontown, Ky. | 37 | 5 | 13 | 42.3 | 10 |
| | | 28 | May 8 | 39.7 | 30 |
| Shawneetown, Ill. | 33 | 4 | 15 | 42.1 | 11 |
| | | 27 | May 10 | 39.1 | 30 |
| Dam 50, Fords Ferry, Ky. | 34 | 4 | 16 | 44.8 | 10 |
| | | 27 | May 11 | 40.9 | 30 |
| Dam 51, Golconda, Ill. | 40 | 9 | 13 | 41.6 | 11 |
| | | May 2 | May 8 | 43.0 | May 5 |
| Paducah, Ky. | 39 | May 2 | May 9 | 40.9 | May 3 |
| Dam 52, Brookport, Ill. | 37 | 6 | 14 | 39.4 | 8 |
| | | 29 | May 11 | 42.9 | May 3 |
| Dam 53, Grand Chain, Ill. | 42 | 6 | 14 | 44.5 | 8 |
| | | 27 | May 12 | 49.4 | May 6-7 |
| Cairo, Ill. | 40 | 6 | 15 | 42.2 | 9 |
| | | 24 | May 14 | 49.1 | May 7 |
| White Basin | | | | | |
| Blacksburg, Ark. | 17 | 25 | 1 | 18.6 | 27 |
| | | | | 19.7 | May 3 |
| Black Rock, Ark. | 14 | 21 | 21 | 14.6 | 21 |
| | | 24 | 1 | 23.0 | 26 |
| Little Red: Judsonia, Ark. | 30 | 26 | 26 | 31.0 | 26 |
| Cache: Patterson, Ark. | 7 | 4 | Mar. 12 | 8.8 | Mar. 10 |
| | | | | 7.5 | 8 |
| | | 24 | 1/ | 9.7 | May 3 |
| White: Batesville, Ark. | 23 | 20 | 20 | 24.6 | 20 |
| | | 25 | 26 | 24.9 | 25 |
| MISSISSIPPI SYSTEM (Continued) | Ft. | | | Ft. | |
| White Basin (Continued) | | | | | |
| White: (Continued) | | | | | |
| Georgetown, Ark. | 21 | 27 | 1 | 23.0 | May 2 |
| Des Arc, Ark. | 24 | 30 | 1 | 26.0 | May 1 |
| Clarendon, Ark. | 26 | 29 | 1/ | 29.2 | May 6 |
| Arkansas Basin | | | | | |
| Whitewater: Towanda, Kans. | 20 | 1 | 2 | 21.3 | 2 |
| | | 18 | 19 | 22.2 | 19 |
| Walnut: El Dorado, Kans. | 18 | 18 | 19 | 18.45 | 18 |
| Augusta, Kans. | 23 | 1 | 3 | 25.8 | 2 |
| | | 18 | 20 | #27.5 | 19 |
| Winfield, Kans. | 30 | 19 | 20 | #31.8 | 20 |
| Arkansas City, Kans. | 18 | 18 | 21 | 21.4 | 20 |
| Chikaskia: Corbin, Kans. | 10 | 18 | 19 | #15.6 | 18 |
| Blackwell, Okla. | 26 | 18 | 20 | #32.3 | 19 |
| Salt Fork: Tonkawa, Okla. | 17 | 19 | 21 | #20.1 | 20 |
| Cimarron: Dover, Okla. | 17 | D | D | #18.2 | 19 |
| Little Caney: Copan, Okla. | 21 | 2 | 3 | #21.7 | 3 |
| | | 20 | 21 | #22.2 | 20 |
| | | 29 | May 2 | 22.7 | May 1 |
| Caney: Bartlesville, Okla. | 13 | 30 | 1 | #14.7 | 30 |
| Ramona, Okla. | 27 | 30 | 3 | 29.2 | May 2 |
| Bird Creek: Avant, Okla. | 16 | 30 | 30 | #25.9 | 30 |
| Sperry, Okla. | 21 | 30 | May 3 | 28.6 | May 1 |
| Owasso, Okla. | 24 | 30 | 1/ | #31.5 | May 2 |
| Verdigris: Altoona, Kans. | 23 | 19 | 20 | #24.6 | 20 |
| Independence, Kans. | 30 | 20 | 21 | #31.6 | 21 |
| Lenapah, Okla. | 30 | 30 | 1/ | 31.5 | May 1 |
| Cottonwood: Plymouth, Kans. | 28 | 19 | 21 | #33.0 | 19 |
| Emporia, Kans. | 20 | 19 | 21 | #23.5 | 20 |
| Spring: Waco, Mo. | 19 | 30 | May 2 | 22.7 | May 1 |
| Quapaw, Okla. | 19 | 30 | May 3 | 24.2 | May 2 |
| Elk: Tiff City, Mo. | 15 | 30 | May 1 | 21.0 | May 1 |
| Neosho: Americus, Kans. | 26 | 19 | 20 | #28.2 | 19 |
| Neosho Rapids, Kans. | 22 | 20 | 20 | #22.9 | 20 |
| LeRoy, Kans. | 23 | 18 | 19 | #27.25 | 19 |
| Iola, Kans. | 20 | 19 | 20 | #27.0 | 19 |
| Chanute, Kans. | 24 | 19 | 20 | #32.0 | 20 |
| Parsons, Kans. | 22 | 21 | 22 | #22.2 | 22 |
| Oswego, Kans. | 17 | 3 | 4 | 18.7 | 3 |
| | | 20 | 24 | 22.25 | 23 |
| Commerce, Okla. | 15 | 3 | 4 | #15.4 | 4 |
| | | 18 | 19 | #15.2 | 18 |
| | | 20 | 25 | #18.4 | 24 |
| | | 30 | May 3 | 19.5 | May 2 |
| Illinois: Watts, Okla. | 13 | D | D | #19.3 | May 1 |
| Tahlequah, Okla. | 11 | 30 | 1/ | 14.5 | May 2 |
| North Canadian: Seiling, Okla. | 11 | 18 | 19 | 11.95 | 18 |
| Fourche Maline: Red Oak, Okla. | 15 | 17 | 17 | #15.55 | 17 |
| | | 19 | 19 | #15.1 | 19 |
| Poteau: Poteau, Okla. | 24 | 17 | 18 | #25.65 | 17 |
| Panama, Okla. | 24 | 17 | 20 | #29.5 | 17 |
| | | 25 | 27 | #27.3 | 26 |
| | | May 1 | May 2 | 26.3 | May 1 |

FLOOD STAGE DATA

(All dates in April unless otherwise specified)

APRIL 1970

| River and station | Flood stage | Above flood stages -dates | | Crest * | |
|---------------------------------------|-------------|---------------------------|--------|------------|---------|
| | | From-- | To-- | Stage | Date |
| MISSISSIPPI SYSTEM (Continued) | Fl. | | | Fl. | |
| Arkansas Basin (Continued) | | | | | |
| Metit Jean: Booneville, Ark. | 18 | 17 | 17 | 20.6 | 17 |
| Danville, Ark. | 20 | 19 | 21 | 23.6 | 20 |
| ourche La Fave: | | | | | |
| Houston, Ark. | 25 | 20 | 22 | 27.9 | 21 |
| | | 25 | 1 | 29.35 | 27 |
| rkansas: Arkansas City, Kans. | 16 | 18 | 20 | 19.8 | 19 |
| Ponca City, Okla. | 914 | 19 | 22 | #917.3 | 20 |
| Ralston, Okla. | 16 | 20 | 22 | #18.3 | 20 |
| Van Buren, Ark. | 22 | 20 | May 21 | 24.7 | May 1 |
| Red Basin | | | | | |
| lear Boggy: Caney, Okla. | 19 | 26 | 27 | 20.4 | 26 |
| iamichi: Belzoni, Okla. | 28 | 26 | 28 | 30.5 | 26 |
| ulphur: Hagansport, Tex. | 44 | 26 | 1 | 46.8 | 27 |
| Naples, Tex. | 22 | 25 | May 8 | 29.6 | 30 |
| uachita: Camden, Ark. | 26 | 22 | 1 | 32.1 | May 1 |
| Lower Mississippi Basin | | | | | |
| t. Francis: Fisk, Mo. | 20 | Mar. 29 | 2 | 21.0 | Mar. 31 |
| | | 21 | May 3 | 23.8 | 24 |
| St. Francis, Mo. | 18 | 2 | 4 | 18.5 | 3 |
| | | 24 | May 16 | 21.2 | 27-28 |
| ig Black: Bovina, Miss. | 28 | 27 | 5 | 30.2 | 2 |
| | | 28 | May 13 | 34.8 | May 4 |
| Mississippi: Caruthersville, Mo. | 32 | 28 | May 15 | 37.2 | May 8 |

| River and station | Flood stage | Above flood stages -dates | | Crest * | |
|--|-------------|---------------------------|--------|------------|---------|
| | | From-- | To-- | Stage | Date |
| WEST GULF OF MEXICO DRAINAGE | Fl. | | | Fl. | |
| Calcasieu: Hinston, La. | 12 | 14 | 14 | 12.2 | 14 |
| Lake Fork Creek: | | | | | |
| Quitman, Tex. | 16 | 27 | 29 | 17.4 | 28 |
| Sabine: Emory, Tex. | 12 | 25 | May 3 | 13.5 | 29 |
| Mineola, Tex. | 14 | Mar. 18 | 3 | 17.5 | Mar. 26 |
| | | 26 | May 10 | 17.2 | 29 |
| Gladewater, Tex. | 26 | Mar. 19 | 3 | 33.0 | Mar. 27 |
| Longview, Tex. | 25 | Mar. 18 | 5 | 29.9 | Mar. 31 |
| Neches: Alto (and) Tex. | 16 | 20 | 25 | #16.8 | 22 |
| Chambers Creek: | | | | | |
| Corsicana, Tex. | 18 | 26 | 29 | E21.9 | 27 |
| Trinity: Dallas, Tex. | 30 | 26 | 27 | #34.8 | 26 |
| Rosser, Tex. | 26 | 26 | 30 | #30.1 | 26 |
| Trinidad, Tex. | 28 | 29 | 1 | 35.1 | May 1 |
| Moss Bluff, Tex. | 4 | 4 | 17 | 6.85 | 4-5 |
| San Jacinto: | | | | | |
| Lake Houston, Tex. | 44.5 | Mar. 12 | 2 | 45.2 | Mar. 19 |
| | | 9 | 1 | 45.3 | 12 |
| Navasota: Bryan (17 NE), Tex. | 12 | 21 | 24 | 12.6 | 23 |
| * Provisional.
Highest stage observed.
1/ Continued at the end of the month.
D Data not available.
E Estimated.
F Opened flood gate-stage dropped 1 foot. | | | | | |

Average monthly values

| * ANCHORAGE, ALASKA
1001 MB | | | | | * ANNETTE, ALASKA
1008 MB | | | | |
|--------------------------------|-----------|----------------|-----------|--------|------------------------------|--------|----------------|--------|-----------|
| Resultant Wind | | Resultant Wind | | | Resultant Wind | | Resultant Wind | | |
| Speed | Direction | Speed | Direction | Speed | Direction | Speed | Direction | Speed | Direction |
| M.P.H. | | M.P.H. | | M.P.H. | | M.P.H. | | M.P.H. | |
| 1.4 | 1.095 | 6.9 | -1.5 | 2.4 | 3.0 | 4.5 | 1.0 | -5.4 | 1.5 |
| 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 |
| 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 |
| 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 |
| 2.9 | 1.444 | 10.4 | -4.7 | 2.5 | 6.1 | 1.335 | -7.3 | -11.8 | 1.5 |
| 3.0 | 1.947 | 8.4 | -8.2 | 2.6 | 8.7 | 1.809 | -10.7 | -14.6 | 1.6 |
| 3.0 | 2.474 | 5.7 | -11.3 | 2.6 | 10.9 | 2.298 | -14.2 | -17.7 | 1.7 |
| 9.2 | 3.039 | 2.1 | -13.9 | 2.5 | 12.7 | 2.821 | -17.6 | -22.0 | 1.8 |
| 11.9 | 3.624 | -2.0 | -17.3 | 2.6 | 15.4 | 3.370 | -21.2 | -26.1 | 1.7 |
| 14.8 | 4.264 | -6.7 | -21.0 | 2.4 | 16.7 | 3.958 | -25.3 | -31.7 | 1.9 |
| 18.3 | 4.931 | -11.4 | -26.3 | 2.8 | 19.7 | 4.583 | -29.2 | -36.1 | 2.0 |
| 20.4 | 5.662 | -10.6 | -30.6 | 2.4 | 21.9 | 5.259 | -33.5 | -39.5 | 2.1 |
| 22.9 | 6.440 | -22.3 | -36.6 | 2.4 | 23.9 | 5.990 | -38.5 | -45.2 | 2.2 |
| 25.1 | 7.331 | -28.0 | -42.0 | 2.0 | 27.3 | 6.751 | -44.0 | -50.6 | 2.3 |
| 29.3 | 8.243 | -35.5 | -46.8 | 2.8 | 32.4 | 7.677 | -49.1 | -55.5 | 2.4 |
| 33.2 | 9.299 | -42.9 | -51.1 | 2.5 | 36.9 | 8.680 | -52.0 | -58.0 | 2.5 |
| 38.2 | 10.508 | -50.6 | -55.0 | 2.5 | 41.6 | 9.802 | -51.5 | -58.0 | 2.6 |
| 38.4 | 11.941 | -56.5 | -55.0 | 2.4 | 44.4 | 11.318 | -49.1 | -55.0 | 2.7 |
| 36.0 | 12.784 | -57.8 | -55.0 | 2.4 | 48.8 | 12.196 | -46.8 | -52.0 | 2.8 |
| 30.3 | 13.756 | -58.3 | -55.0 | 2.1 | 58.1 | 13.209 | -48.6 | -55.0 | 2.9 |
| 29.3 | 14.897 | -60.5 | -55.0 | 2.8 | 33.5 | 14.449 | -48.5 | -55.0 | 3.0 |
| 24.7 | 16.280 | -62.7 | -55.0 | 2.5 | 25.8 | 15.876 | -48.4 | -55.0 | 3.1 |
| 18.1 | 17.653 | -63.6 | -55.0 | 2.8 | 16.6 | 17.342 | -49.0 | -55.0 | 3.2 |
| 11.9 | 18.764 | -62.9 | -55.0 | 2.4 | 15.2 | 18.818 | -48.7 | -55.0 | 3.3 |
| 7.6 | 19.628 | -61.3 | -55.0 | 2.5 | 6.6 | 19.232 | -48.7 | -55.0 | 3.4 |
| 1.4 | 20.567 | -58.3 | -55.0 | 2.4 | 4.5 | 20.429 | -48.9 | -55.0 | 3.5 |
| 1.4 | 21.979 | -56.1 | -55.0 | 2.5 | 1.9 | 21.893 | -49.3 | -55.0 | 3.6 |
| 1.1 | 23.818 | -53.7 | -55.0 | 3.1 | 1.1 | 23.775 | -49.6 | -55.0 | 3.7 |
| 1.6 | 24.995 | -52.0 | -55.0 | 3.0 | 1.2 | 24.965 | -49.6 | -55.0 | 3.8 |
| 1.9 | 26.446 | -50.1 | -55.0 | 3.0 | 0.8 | 26.419 | -49.5 | -55.0 | 3.9 |
| 4.2 | 16.2850 | -46.6 | -55.0 | 2.8 | 5.9 | 23.206 | -49.2 | -55.0 | 4.0 |
| | 31.084 | -38.5 | -55.0 | 1.6 | 30.938 | -48.2 | -55.0 | -50.4 | 4.1 |

| ATHENS, GEORGIA
987 MB | | | | | | | | | | BARROW, ALASKA
1017 MB | | | | | | | | | | BARTER IS., ALASKA
1014 MB | | | | | | | | | | BETHEL, ALASKA
1000 MB | | | | | | | | | | BISPAK, N. DAK.
951 MB | | | | | | | | | |
|---------------------------|----|--------|-------|-------|-----|------|----|--------|-------|---------------------------|----|-----|----|--------|-------|-------|----|-----|----|-------------------------------|-------|-------|----|------|----|--------|--------|-------|----|---------------------------|--|--|--|--|--|--|--|--|--|---------------------------|--|--|--|--|--|--|--|--|--|
| SURFACE | 30 | 246 | 12.7 | 8.4 | 27 | .7 | 30 | 11 | -20.5 | -22.8 | 07 | 4.2 | 30 | 15 | -19.4 | -22.6 | 09 | 3.7 | 24 | 39 | -5.5 | -7.1 | 28 | .7 | 29 | 503 | 1.0 | -2.7 | 35 | 2.3 | | | | | | | | | | | | | | | | | | | |
| 9000 | 30 | 137 | | | | | 30 | 132 | -19.4 | -20.7 | 07 | 6.3 | 30 | 116 | -18.1 | -20.4 | 09 | 4.6 | 24 | | | | | 1.9 | 29 | 92 | | | | | | | | | | | | | | | | | | | | | | | |
| 1000 | 30 | 569 | 14.6 | 6.5 | 25 | 3.1 | 30 | 517 | -17.5 | -18.9 | 09 | 8.0 | 30 | 505 | -13.0 | -15.4 | 10 | 7.0 | 26 | 435 | -6.1 | -9.1 | 18 | 1.5 | 29 | 507 | | | | 1.1 | | | | | | | | | | | | | | | | | | | |
| 9000 | 30 | 1,025 | 12.5 | 3.3 | 26 | | 30 | 922 | -15.3 | -17.9 | 09 | 8.1 | 30 | 917 | -11.6 | -15.7 | 10 | 7.0 | 26 | 859 | -8.1 | -10.6 | 21 | 2.6 | 29 | 942 | | | | 3.8 | | | | | | | | | | | | | | | | | | | |
| 850 | 30 | 1,550 | 10.2 | .0 | 7.0 | | 30 | 1,350 | -15.3 | -19.2 | 07 | 6.1 | 30 | 1,335 | -12.0 | -17.9 | 11 | 5.6 | 26 | 1,302 | -13.0 | -22.0 | 22 | 2.6 | 29 | 1,480 | -1.2 | -7.1 | 32 | 4.8 | | | | | | | | | | | | | | | | | | | |
| 8000 | 30 | 2,006 | 7.9 | 2.6 | 26 | | 30 | 1,681 | -10.4 | -21.1 | 10 | 6.1 | 30 | 1,617 | -10.6 | -20.2 | 12 | 3.9 | 26 | 1,767 | -12.3 | -16.2 | 22 | 3.1 | 29 | 1,891 | 3.3 | -8.6 | 33 | 6.4 | | | | | | | | | | | | | | | | | | | |
| 750 | 30 | 2,534 | 6.1 | -11.4 | 24 | 10.0 | 30 | 2,295 | -18.3 | -24.3 | 11 | 5.5 | 30 | 2,302 | -16.4 | -22.2 | 12 | 2.3 | 26 | 2,257 | -14.7 | -19.8 | 22 | 3.0 | 29 | 2,389 | -6.0 | -11.4 | 30 | 6.7 | | | | | | | | | | | | | | | | | | | |
| 700 | 30 | 3,099 | 3.3 | -14.1 | 27 | 12.4 | 30 | 2,808 | -20.9 | -27.2 | 11 | 4.9 | 30 | 2,821 | -19.4 | -25.5 | 14 | 1.9 | 26 | 2,778 | -18.0 | -25.0 | 23 | 2.9 | 29 | 2,927 | -8.8 | -13.8 | 29 | 7.5 | | | | | | | | | | | | | | | | | | | |
| 650 | 30 | 3,688 | .2 | -18.3 | 27 | 15.6 | 30 | 3,347 | -24.2 | -30.4 | 12 | 4.6 | 30 | 3,365 | -22.8 | -29.2 | 19 | 1.7 | 26 | 3,322 | -21.5 | -29.6 | 23 | 3.6 | 29 | 3,497 | -11.8 | -17.9 | 29 | 8.8 | | | | | | | | | | | | | | | | | | | |
| 600 | 30 | 4,332 | -4.3 | -20.4 | 27 | 18.8 | 30 | 3,931 | -28.0 | -34.4 | 14 | 3.9 | 30 | 3,951 | -26.7 | -33.8 | 22 | 2.2 | 26 | 3,914 | -25.3 | -33.3 | 23 | 4.1 | 29 | 4,108 | -15.0 | -21.3 | 28 | 10.2 | | | | | | | | | | | | | | | | | | | |
| 550 | 30 | 5,001 | -9.0 | -22.8 | 27 | 21.6 | 30 | 4,546 | -32.3 | -38.7 | 15 | 3.9 | 30 | 4,568 | -31.0 | -37.7 | 22 | 3.1 | 26 | 4,534 | -29.4 | -37.0 | 24 | 4.2 | 28 | 4,758 | -19.1 | -26.7 | 28 | 11.9 | | | | | | | | | | | | | | | | | | | |
| 500 | 30 | 5,744 | -1.0 | -26.0 | 27 | 25.0 | 30 | 5,217 | -36.8 | -41.9 | 14 | 3.2 | 30 | 5,244 | -34.6 | -41.4 | 23 | 4.2 | 26 | 5,213 | -34.7 | -42.6 | 24 | 4.5 | 28 | 5,488 | -24.9 | -31.2 | 27 | 14.2 | | | | | | | | | | | | | | | | | | | |
| 450 | 30 | 6,526 | -19.3 | -30.9 | 27 | 27.7 | 30 | 5,938 | -41.6 | -47.0 | 17 | 3.9 | 30 | 5,966 | -40.0 | -47.1 | 29 | 4.9 | 26 | 5,993 | -38.4 | -46.4 | 25 | 5.7 | 28 | 6,220 | -29.2 | -36.8 | 27 | 14.2 | | | | | | | | | | | | | | | | | | | |
| 400 | 30 | 7,402 | -25.4 | -35.9 | 27 | 31.3 | 30 | 6,729 | -46.9 | | 18 | 4.3 | 30 | 6,765 | -45.8 | | 23 | 5.3 | 24 | 6,748 | -43.4 | -46.4 | 26 | 7.9 | 28 | 7,056 | -35.4 | -41.8 | 26 | 14.9 | | | | | | | | | | | | | | | | | | | |
| 350 | 30 | 8,358 | -32.5 | -41.6 | 27 | 35.4 | 30 | 7,603 | -52.4 | | 19 | 4.4 | 30 | 7,643 | -51.3 | | 23 | 6.3 | 26 | 7,638 | -48.2 | | 27 | 9.6 | 28 | 7,972 | -42.6 | -45.9 | 27 | 16.3 | | | | | | | | | | | | | | | | | | | |
| 300 | 30 | 9,426 | -40.3 | -48.0 | 27 | 38.4 | 30 | 8,530 | -53.7 | | 19 | 4.7 | 30 | 8,634 | -55.3 | | 23 | 7.2 | 26 | 8,606 | -50.9 | | 26 | 11.4 | 27 | 8,996 | -49.5 | | 26 | 18.4 | | | | | | | | | | | | | | | | | | | |
| 250 | 30 | 10,646 | -49.1 | | 28 | 44.6 | 30 | 9,756 | -52.9 | | 21 | 5.0 | 30 | 9,802 | -52.9 | | 23 | 6.7 | 26 | 9,833 | -50.3 | | 26 | 12.3 | 27 | 10,176 | -54.4 | | 26 | 19.4 | | | | | | | | | | | | | | | | | | | |
| 200 | 30 | 12,081 | -57.7 | | 28 | 50.1 | 30 | 11,206 | -49.8 | | 22 | 5.5 | 30 | 11,255 | -49.4 | | 23 | 6.8 | 26 | 11,294 | -48.9 | | 26 | 9.3 | 27 | 11,603 | -51.5 | | 28 | 20.6 | | | | | | | | | | | | | | | | | | | |
| 175 | 29 | 12,921 | -51.7 | | 28 | 46.8 | 30 | 12,087 | -48.2 | | 22 | 5.2 | 30 | 12,132 | -48.6 | | 23 | 6.2 | 26 | 12,171 | -48.7 | | 26 | 9.5 | 27 | 12,514 | -54.8 | | 28 | 18.5 | | | | | | | | | | | | | | | | | | | |
| 150 | 29 | 13,881 | -61.4 | | 28 | 52.5 | 30 | 13,095 | -48.8 | | 23 | 5.7 | 30 | 13,147 | -48.2 | | 23 | 6.5 | 26 | 13,184 | -48.3 | | 26 | 8.2 | 27 | 13,459 | -51.8 | | 27 | 16.6 | | | | | | | | | | | | | | | | | | | |
| 125 | 29 | 15,006 | -63.7 | | 28 | 33.1 | 30 | 14,257 | -47.8 | | 23 | 5.9 | 30 | 14,350 | -47.9 | | 23 | 6.3 | 26 | 14,381 | -48.7 | | 25 | 7.5 | 27 | 14,680 | -52.2 | | 27 | 14.3 | | | | | | | | | | | | | | | | | | | |
| 100 | 28 | 16,368 | -66.0 | | 28 | 27.0 | 30 | 15,771 | -47.6 | | 23 | 5.0 | 30 | 15,823 | -47.5 | | 24 | 4.9 | 26 | 15,848 | -48.6 | | 24 | 5.6 | 27 | 16,050 | -53.6 | | 26 | 12.0 | | | | | | | | | | | | | | | | | | | |
| 80 | 28 | 17,720 | -66.1 | | 28 | 17.7 | 29 | 17,244 | -47.0 | | 22 | 5.3 | 29 | 17,301 | -47.4 | | 23 | 4.8 | 26 | 17,315 | -48.5 | | 24 | 4.5 | 27 | 17,516 | -51.5 | | 26 | 9.0 | | | | | | | | | | | | | | | | | | | |
| 70 | 28 | 18,530 | -65.5 | | 28 | 11.9 | 27 | 18,121 | -46.9 | | 22 | 4.9 | 29 | 18,184 | -47.3 | | 23 | 4.1 | 26 | 18,194 | -48.3 | | 23 | 3.8 | 27 | 18,374 | -54.1 | | 27 | 7.9 | | | | | | | | | | | | | | | | | | | |
| 60 | 28 | 19,473 | -63.2 | | 28 | 7.1 | 25 | 19,146 | -47.3 | | 23 | 4.5 | 29 | 19,205 | -47.1 | | 23 | 4.0 | 25 | 19,207 | -48.5 | | 21 | 3.2 | 27 | 19,363 | -54.1 | | 27 | 6.3 | | | | | | | | | | | | | | | | | | | |
| 50 | 28 | 20,600 | -60.5 | | 30 | 3.5 | 20 | 20,352 | -47.3 | | 22 | 2.8 | 29 | 20,413 | -47.3 | | 23 | 2.6 | 25 | 20,405 | -48.5 | | 21 | 1.6 | 27 | 20,595 | -54.8 | | 27 | 5.3 | | | | | | | | | | | | | | | | | | | |
| 40 | 28 | 22,052 | -56.7 | | 34 | 2.4 | 23 | 21,830 | -47.4 | | 22 | 2.8 | 2 | 2,895 | -47.1 | | 25 | 3.7 | 2 | 2,870 | -49.0 | | 1 | 1 | 27 | 22,362 | -54.5 | | 28 | 5.0 | | | | | | | | | | | | | | | | | | | |
| 30 | 27 | 23,840 | -53.4 | | 36 | 1.1 | 17 | 23,749 | -47.5 | | 10 | 1.6 | 26 | 23,800 | -47.2 | | 20 | 2.8 | 22 | 23,755 | -49.4 | | 07 | 2.4 | 26 | 23,806 | -54.5 | | 29 | 5.4 | | | | | | | | | | | | | | | | | | | |
| 20 | 26 | 25,019 | -51.7 | | 46 | 2.5 | 11 | 24,969 | -47.0 | | 07 | 4.1 | 25 | 25,009 | -46.8 | | 29 | 4.9 | 21 | 24,944 | -49.6 | | 07 | 3.8 | 26 | 24,972 | -54.6 | | 29 | 6.5 | | | | | | | | | | | | | | | | | | | |
| 10 | 24 | 26,480 | -49.0 | | 14 | .3 | | | | | | | 23 | 26,515 | -46.0 | | 30 | 5.5 | 15 | 26,391 | -50.1 | | 05 | 4.7 | 26 | 26,402 | -54.1 | | 29 | 7.9 | | | | | | | | | | | | | | | | | | | |
| 5 | 19 | 28,382 | -45.2 | | 21 | 1.4 | | | | | | | 19 | 28,421 | -46.2 | | 32 | 7.4 | 7 | 28,246 | -50.5 | | | | 25 | 28,253 | -52.3 | | 28 | 11.5 | | | | | | | | | | | | | | | | | | | |
| 1 | 10 | 31,115 | -38.7 | | 27 | 6.0 | | | | | | | 13 | 31,183 | -45.1 | | | | | | | | | | 23 | 30,902 | -47.7 | | 27 | 18.2 | | | | | | | | | | | | | | | | | | | |
| 7 | 5 | 33,338 | -36.3 | | | | | | | | | | | | | | | | | | | | | | 19 | 33,303 | -46.5 | | 26 | 24.9 | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | 5 | 33,515 | -39.6 | | | | | | | | | | | | | | | | | | | | | |

| BOLLE, 104MD
915 MB | | | | | | | | | | * BROWNVILLE, TEXAS
1010 MB | | | | | | | | | | BUFFALO, N. Y.
989 MB | | | | | | | | | | CAPE MATTERAS, N. C.
1010 MB | | | | | | | | | | * CARIBOU, MAINE
990 MB | | | | | | | | | |
|------------------------|----|--------|-------|-------|----|------|----|--------|-------|--------------------------------|------|------|---------|--------|-------|-------|-----|--------|--------|--------------------------|-------|--------|-------|------|--------|--------|-------|-------|------|---------------------------------|-----|--|--|--|--|--|--|--|--|----------------------------|--|--|--|--|--|--|--|--|--|
| SURFACE | 36 | 871 | 2.6 | -3.7 | 27 | .8 | 30 | 7 | 20.1 | 18.4 | 14 | 3.5 | 30 | 218 | 4.5 | .8 | 21 | 1.5 | 30 | 4 | 13.0 | 10.3 | 36 | 1.7 | 30 | 191 | .0 | +4.0 | 29 | .9 | | | | | | | | | | | | | | | | | | | |
| 1000 | 36 | 1400 | | | | | | | 5 | 20.5 | 18.1 | 14 | 3.5 | 30 | 123 | | | | | 30 | 140 | 14.0 | 9.2 | 33 | 1.7 | 30 | 110 | | | | | | | | | | | | | | | | | | | | | | |
| 950 | 30 | 581 | | | | | | | 30 | 53.1 | 9.7 | 14 | 3.5 | | 5.6 | -1.6 | 23 | 2.7 | 57 | 30 | 14.0 | 14.0 | 4.0 | 30 | | | | -1.2 | -7.7 | 30 | 3.0 | | | | | | | | | | | | | | | | | | |
| 900 | 30 | 1,001 | 3.5 | +4.8 | 30 | 2.1 | 30 | 1,002 | 18.8 | 5.9 | 18 | 10.9 | 30 | 983 | 3.5 | -3.0 | 24 | 4.3 | 30 | 1,026 | 11.2 | -2.2 | 29 | 5.4 | 30 | 951 | -2.9 | -8.7 | 30 | 4.9 | | | | | | | | | | | | | | | | | | | |
| 850 | 30 | 1,463 | 1.1 | +7.1 | 32 | 5.1 | 30 | 1,492 | 17.2 | 2.6 | 18 | 10.8 | 30 | 1,445 | 1.1 | -6.5 | 27 | 6.7 | 30 | 1,502 | 9.0 | -2.2 | 28 | 6.5 | 30 | 1,403 | +4.2 | -10.8 | 31 | 6.7 | | | | | | | | | | | | | | | | | | | |
| 800 | 30 | 1,948 | +2.4 | +9.5 | 31 | 6.5 | 30 | 2,008 | 15.8 | +3.0 | 19 | 9.8 | 30 | 1,931 | -1.2 | +9.4 | 27 | 9.0 | 30 | 2,002 | 6.0 | +4.5 | 28 | 7.8 | 30 | 1,879 | +6.3 | -13.4 | 31 | 8.1 | | | | | | | | | | | | | | | | | | | |
| 750 | 30 | 2,454 | +6.3 | -12.1 | 30 | 7.3 | 30 | 2,552 | 14.6 | -7.2 | 20 | 8.1 | 30 | 2,445 | +3.7 | -13.5 | 27 | 10.6 | 30 | 2,530 | 3.4 | +9.3 | 28 | 10.4 | 30 | 2,367 | -8.1 | -17.6 | 30 | 9.4 | | | | | | | | | | | | | | | | | | | |
| 700 | 30 | 2,993 | -8.8 | -18.3 | 29 | 7.3 | 30 | 3,134 | 10.7 | -10.4 | 22 | 7.0 | 30 | 2,986 | +5.5 | -16.7 | 28 | 11.6 | 30 | 3,086 | | -12.2 | 28 | 13.3 | 30 | 2,917 | 10.3 | -19.6 | 30 | 10.6 | | | | | | | | | | | | | | | | | | | |
| 650 | 30 | 3,558 | -13.3 | -22.0 | 29 | 8.2 | 30 | 3,742 | 4.6 | -12.4 | 24 | 10.1 | 30 | 3,562 | +9.4 | +20.0 | 28 | 13.3 | 30 | 3,677 | -2.8 | -16.8 | 28 | 15.9 | 30 | 3,581 | -1.7 | -22.7 | 30 | 11.8 | | | | | | | | | | | | | | | | | | | |
| 600 | 30 | 4,166 | -16.9 | -26.4 | 29 | 9.0 | 30 | 4,398 | 1.4 | -16.9 | 25 | 11.7 | 30 | 4,178 | -12.3 | -24.4 | 28 | 15.2 | 30 | 4,308 | -6.0 | -20.9 | 28 | 17.6 | 30 | 4,092 | -16.5 | -29.0 | 29 | 12.9 | | | | | | | | | | | | | | | | | | | |
| 550 | 30 | 4,811 | -20.8 | -30.3 | 29 | 10.5 | 30 | 5,081 | -1.4 | -19.0 | 25 | 13.2 | 30 | 4,836 | -13.6 | -28.0 | 28 | 16.9 | 30 | 4,976 | -10.2 | -24.2 | 28 | 20.1 | 30 | 4,742 | -20.0 | -30.8 | 29 | 14.2 | | | | | | | | | | | | | | | | | | | |
| 500 | 30 | 5,512 | -25.6 | -34.9 | 28 | 11.4 | 30 | 5,837 | -8.6 | -25.6 | 25 | 15.5 | 30 | 5,549 | -20.9 | -32.8 | 28 | 17.8 | 30 | 5,714 | -15.0 | -28.8 | 28 | 22.3 | 30 | 5,543 | -24.3 | -35.8 | 29 | 14.9 | | | | | | | | | | | | | | | | | | | |
| 450 | 30 | 6,245 | -31.2 | -39.8 | 28 | 12.3 | 30 | 6,633 | -13.7 | -31.0 | 25 | 18.5 | 30 | 6,318 | -26.1 | -38.0 | 28 | 19.2 | 30 | 6,499 | -20.1 | -32.9 | 28 | 26.5 | 30 | 6,204 | -29.6 | -41.2 | 29 | 15.6 | | | | | | | | | | | | | | | | | | | |
| 400 | 30 | 7,031 | -37.4 | -42.8 | 28 | 14.2 | 30 | 7,532 | -26.3 | -32.7 | 25 | 22.7 | 30 | 7,183 | -42.3 | -45.2 | 28 | 22.5 | 30 | 7,373 | -37.3 | -42.6 | 28 | 30.4 | 30 | 7,036 | -45.0 | -46.8 | 29 | 17.2 | | | | | | | | | | | | | | | | | | | |
| 350 | 30 | 7,999 | -44.2 | -45.2 | 28 | 14.8 | 30 | 8,508 | -27.3 | -41.0 | 25 | 26.5 | 30 | 8,092 | -39.2 | -46.8 | 28 | 23.6 | 30 | 8,320 | -32.6 | -43.6 | 28 | 31.6 | 30 | 7,951 | -62.0 | -49.2 | 29 | 18.3 | | | | | | | | | | | | | | | | | | | |
| 300 | 30 | 9,016 | -50.7 | | 28 | 18.0 | 30 | 9,599 | -35.7 | +47.2 | 26 | 30.1 | 30 | 9,132 | -46.1 | | 28 | 25.5 | 30 | 9,389 | -40.2 | -48.5 | 28 | 36.8 | 30 | 8,980 | -47.8 | | 29 | 19.1 | | | | | | | | | | | | | | | | | | | |
| 250 | 30 | 10,193 | -53.9 | | 28 | 19.8 | 30 | 10,842 | +5.3 | | 26 | 33.6 | 30 | 10,326 | -52.6 | | 28 | 28.8 | 30 | 10,610 | -48.4 | | 28 | 42.5 | 30 | 10,171 | -52.0 | | 29 | 21.0 | | | | | | | | | | | | | | | | | | | |
| 200 | 30 | 11,822 | -55.8 | | 28 | 22.0 | 30 | 12,293 | -56.8 | | 26 | 38.4 | 30 | 11,752 | -56.1 | | 27 | 27.2 | 30 | 12,050 | -56.4 | | 29 | 43.8 | 30 | 11,612 | -52.4 | | 29 | 20.1 | | | | | | | | | | | | | | | | | | | |
| 175 | 30 | 12,475 | -54.8 | | 28 | 16.6 | 30 | 13,129 | +62.3 | | 24 | 27.8 | 28 | 12,594 | -55.4 | | 28 | 27.9 | 30 | 12,892 | -58.7 | | 29 | 41.2 | 30 | 13,477 | -51.5 | | 28 | 18.6 | | | | | | | | | | | | | | | | | | | |
| 150 | 30 | 13,643 | -53.9 | | 27 | 15.3 | 30 | 14,071 | +66.4 | | 26 | 30.6 | 26 | 13,576 | -54.7 | | 28 | 24.9 | 30 | 13,857 | -59.6 | | 28 | 37.9 | 30 | 13,479 | -50.9 | | 28 | 16.7 | | | | | | | | | | | | | | | | | | | |
| 125 | 30 | 14,632 | -54.7 | | 27 | 12.9 | 30 | 15,166 | +69.8 | | 25 | 30.2 | 24 | 14,746 | -55.4 | | 28 | 22.1 | 30 | 14,994 | -61.1 | | 29 | 32.9 | 30 | 14,665 | -51.3 | | 28 | 13.9 | | | | | | | | | | | | | | | | | | | |
| 100 | 30 | 16,061 | -53.9 | | 26 | 10.7 | 30 | 16,481 | +74.0 | | 25 | 21.2 | 23 | 16,170 | -57.0 | | 29 | 18.6 | 30 | 16,377 | -62.3 | | 29 | 26.9 | 30 | 16,111 | -52.7 | | 28 | 11.9 | | | | | | | | | | | | | | | | | | | |
| 75 | 30 | 17,940 | -55.9 | | 24 | 8.4 | 30 | 17,778 | -75.2 | | 25 | 11.8 | 21 | 17,586 | -56.6 | | 29 | 14.2 | 30 | 17,750 | -63.5 | | 29 | 17.4 | 30 | 17,568 | -53.8 | | 28 | 10.2 | | | | | | | | | | | | | | | | | | | |
| 50 | 30 | 18,330 | -55.7 | | 25 | 6.5 | 29 | 18,556 | -72.8 | | 24 | 5.8 | 18,432 | -56.6 | | 29 | 9.7 | 29 | 18,951 | -62.1 | | 28 | 12.9 | 30 | 18,406 | -53.8 | | 28 | 6.4 | | | | | | | | | | | | | | | | | | | | |
| 25 | 30 | 19,313 | -55.3 | | 25 | 5.4 | 28 | 19,471 | +88.0 | | 18 | 1.5 | 19,134 | -56.7 | | 29 | 9.7 | 29 | 19,328 | -60.6 | | 28 | 6.0 | 19 | 19,197 | -53.5 | | 28 | 6.4 | | | | | | | | | | | | | | | | | | | | |
| 0 | 30 | 20,474 | -55.4 | | 24 | 4.0 | 28 | 20,582 | -62.7 | | 17 | 0.9 | 20,561 | -56.1 | | 29 | 8.9 | 29 | 20,670 | -57.7 | | 30 | 5.2 | 29 | 20,567 | -54.6 | | 28 | 6.4 | | | | | | | | | | | | | | | | | | | | |
| | 30 | 21,903 | +34.5 | | 24 | 2.3 | 28 | 21,972 | -58.3 | | 8 | 4.3 | 19,1983 | -55.3 | | 29 | 5.7 | 27 | 22,090 | -55.1 | | 33 | 1.9 | 29 | 21,997 | -54.2 | | 28 | 5.6 | | | | | | | | | | | | | | | | | | | | |
| | 30 | 23,745 | -53.6 | | 22 | 3.2 | 28 | 23,800 | -53.9 | | 8 | 6.6 | 16 | 23,811 | -54.3 | | 28 | 7.4 | 25 | 23,943 | -52.2 | | 36 | 1.5 | 27 | 23,826 | -54.3 | | 27 | 5.3 | | | | | | | | | | | | | | | | | | | |
| | 30 | 24,915 | -53.1 | | 22 | 7.4 | 28 | 24,978 | -53.2 | | 8 | 7.4 | 16 | 24,982 | -53.5 | | 29 | 9.6 | 24 | 25,126 | -50.4 | | 04 | 1.26 | 25 | 25,003 | -53.9 | | 24 | 6.7 | | | | | | | | | | | | | | | | | | | |
| | 30 | 26,350 | -54.6 | | 28 | 5.3 | 24 | 26,435 | +48.5 | | 8 | 6.1 | 14 | 26,406 | -50.6 | | 28 | 7.4 | 24 | 26,466 | -50.8 | | 35 | 1.7 | 24 | 26,466 | -50.8 | | 24 | 6.7 | | | | | | | | | | | | | | | | | | | |
| | 30 | 28,221 | -52.2 | | 28 | 9.5 | 23 | 28,348 | +43.6 | | 9 | 7.6 | 7 | 28,245 | -48.8 | | 13 | 28,506 | +44.2 | | 13 | 28,506 | +44.2 | | 26 | 28,309 | -50.5 | | 27 | 11.9 | | | | | | | | | | | | | | | | | | | |
| | 14 | 30,886 | +47.3 | | 27 | 17.2 | 17 | 31,099 | -38.7 | | 9 | 8.0 | | | | | | | | | | | | | 19 | 30,956 | -44.5 | | 26 | 17.5 | | | | | | | | | | | | | | | | | | | |

Average monthly values

APRIL 1970

See reference note at end of table

Average monthly values

| DREYER FALLS, MONT.
960 MB | | | | | | | | | | GREENSBURG, W. V.
945 MB | | | | | | | | | | GUANAJARITO, MEX.
1010 MB | | | | | | | | | | HILTI, HAWAII
1010 MB | | | | | | | | | | HUNTINGTON, W. VA.
960 MB | | | | | | | | | |
|---------------------------------|---|--------------------|---|----------------|-------|-------------|-------|-----------|-------|-----------------------------|-----|-------|-------|--------------------|-------|----------------|------|-------------|-------|------------------------------|-------|-----------|------|-------|-------|--------------------|-------|----------------|------|--------------------------|---|-----------|-----|-----------|---|-------|--|--|--|------------------------------|--|--|--|--|--|--|--|--|--|
| Standard pressure
surface mb | | No of observations | | Dynamic height | | Temperature | | Dew Point | | Direction | | Speed | | No of observations | | Dynamic height | | Temperature | | Dew Point | | Direction | | Speed | | No of observations | | Dynamic height | | Temperature | | Dew Point | | Direction | | Speed | | | | | | | | | | | | | |
| SURFACE | 3 | 1,118 | 3 | 5-8 | 24 | 3.2 | 3 | 275 | 10.8 | 0.9 | 23 | 8 | 3 | 1,111 | 25.0 | 22.6 | 3 | 4.1 | 3 | 11 | 20.1 | 17.6 | 24 | 9 | 3 | 240 | 9.1 | 4.0 | 2 | 1.3 | 3 | 240 | 9.1 | 4.0 | 2 | 1.3 | | | | | | | | | | | | | |
| 1000 | 3 | 121 | 3 | | | 3 | 143 | | | | | 3 | 112 | 3 | 183 | 20.2 | 16.8 | 06 | 4.5 | 3 | 123 | | | 4 | 3 | 551 | 11.4 | 4.1 | 23 | 3.7 | | | | | | | | | | | | | | | | | | | |
| 950 | 3 | 539 | 3 | | | 3 | 573 | 12.2 | 4.7 | 27 | 3.0 | 3 | 504 | 22.7 | 20.5 | 38 | 9.9 | 3 | 606 | 17.0 | 14.6 | 07 | 4.8 | 3 | 551 | 11.4 | 4.1 | 23 | 3.7 | | | | | | | | | | | | | | | | | | | | |
| 900 | 3 | 979 | 3 | | | 3 | 1,026 | 10.7 | 2.4 | 28 | 6.1 | 3 | 1,033 | 19.8 | 16.2 | 09 | 10.1 | 3 | 1,085 | 13.8 | 11.8 | 08 | 4.2 | 3 | 1,002 | 9.6 | 1.9 | 26 | 6.4 | | | | | | | | | | | | | | | | | | | | |
| 850 | 3 | 1,518 | 3 | -7.1 | -7.6 | 26 | 6.1 | 1,500 | 8.2 | -5.5 | 28 | 8.1 | 1,515 | 15.3 | 11.3 | 29 | 9.1 | 3 | 1,566 | 11.8 | 9.0 | 08 | 4.2 | 3 | 1,424 | 7.7 | 1.3 | 39 | 9.1 | | | | | | | | | | | | | | | | | | | | |
| 800 | 3 | 2,057 | 3 | -7.1 | -12.0 | 29 | 7.1 | 2,022 | 3.1 | -6.5 | 28 | 10.6 | 2,030 | 11.1 | -2.2 | 39 | 8.5 | 3 | 2,087 | 6.2 | -2.6 | 08 | 4.2 | 3 | 2,493 | 1.4 | -5.1 | 27 | 12.9 | | | | | | | | | | | | | | | | | | | | |
| 750 | 3 | 2,596 | 3 | -10.7 | -15.8 | 29 | 8.0 | 2,581 | 3.1 | -13.8 | 28 | 11.8 | 2,613 | 13.0 | -9.4 | 08 | 7.8 | 3 | 2,645 | 3.6 | -9.3 | 08 | 4.2 | 3 | 3,046 | -1.5 | -12.4 | 27 | 12.2 | | | | | | | | | | | | | | | | | | | | |
| 700 | 3 | 3,135 | 3 | -16.4 | -19.9 | 29 | 7.9 | 3,069 | -2.6 | -19.6 | 28 | 14.1 | 3,081 | 16.0 | -13.6 | 08 | 6.7 | 3 | 3,141 | 4.4 | -13.6 | 08 | 1.4 | 3 | 3,630 | -4.9 | -15.9 | 27 | 14.2 | | | | | | | | | | | | | | | | | | | | |
| 650 | 3 | 3,674 | 3 | -23.3 | -24.1 | 29 | 8.0 | 3,603 | -6.4 | -23.4 | 28 | 16.4 | 3,634 | 4.6 | -17.1 | 08 | 6.2 | 3 | 3,685 | -2.9 | -18.3 | 28 | 1.1 | 3 | 4,259 | -8.6 | -19.3 | 27 | 17.1 | | | | | | | | | | | | | | | | | | | | |
| 600 | 3 | 4,213 | 3 | -22.3 | -28.1 | 28 | 8.1 | 4,097 | -1.4 | -25.9 | 28 | 19.6 | 4,133 | -2.1 | -21.1 | 07 | 6.5 | 3 | 4,203 | 11.8 | -22.8 | 29 | 3.9 | 3 | 4,926 | -12.9 | -22.6 | 27 | 18.6 | | | | | | | | | | | | | | | | | | | | |
| 550 | 3 | 4,752 | 3 | -31.7 | -33.4 | 28 | 9.1 | 4,702 | -15.9 | -29.6 | 28 | 22.4 | 4,735 | -9.9 | -25.0 | 07 | 5.6 | 3 | 4,809 | -10.9 | -28.9 | 28 | 5.1 | 3 | 5,649 | -17.7 | -27.0 | 27 | 20.0 | | | | | | | | | | | | | | | | | | | | |
| 500 | 3 | 5,291 | 3 | -31.7 | -38.4 | 27 | 10.7 | 5,243 | -21.4 | -34.2 | 28 | 24.9 | 5,272 | -9.3 | -29.1 | 08 | 5.0 | 3 | 5,305 | -16.1 | -33.5 | 28 | 7.4 | 3 | 6,425 | -23.0 | -32.1 | 27 | 23.2 | | | | | | | | | | | | | | | | | | | | |
| 450 | 3 | 5,830 | 3 | -37.8 | -42.2 | 27 | 11.5 | 5,735 | -27.3 | -36.9 | 28 | 29.0 | 5,760 | -15.4 | -34.3 | 08 | 2.7 | 3 | 5,828 | -25.5 | -39.9 | 27 | 10.5 | 3 | 7,285 | -28.9 | -37.6 | 27 | 25.7 | | | | | | | | | | | | | | | | | | | | |
| 400 | 3 | 6,369 | 3 | -44.7 | | 27 | 11.8 | 6,294 | -37.8 | -44.0 | 28 | 34.0 | 6,314 | -22.5 | -39.5 | 06 | 1.0 | 3 | 6,345 | -29.6 | -44.5 | 27 | 13.9 | 3 | 8,228 | -35.1 | -43.6 | 27 | 30. | | | | | | | | | | | | | | | | | | | | |

| KORDA, CAROLINE IS.
1008 MB | | | | | | | | | | KUTZUBUE, ALASKA
009 MB | | | | | | | | | | KWAJALEIN, MARSHALL IS.
1011 MB | | | | | | | | | | LAKE CHARLES, LA.
1013 MB | | | | | | | | | | LANDER, WYOM.
824 MB | | | | | | | | | |
|--------------------------------|----|------|-------|-------|----|-----|----|-------|-------|----------------------------|----|------|----|------|-------|-------|-----|------|----|------------------------------------|-------|-------|-----|------|-------|------|-------|-------|-----|------------------------------|--|--|--|--|--|--|--|--|--|-------------------------|--|--|--|--|--|--|--|--|--|
| SURFACE | 30 | 30 | 28.1 | 24.4 | 06 | 3.9 | 30 | 5 | -13.5 | -17.4 | 28 | 7.30 | 4 | 27.1 | 22.9 | 07 | 7.5 | 30 | 5 | 17.4 | 15.4 | 15 | 1.6 | 30 | 1.697 | -7.9 | -6.5 | 24 | 1.6 | | | | | | | | | | | | | | | | | | | | |
| 1000 | 30 | 102 | 27.1 | 22.7 | 06 | 4.9 | 30 | 7 | -12.9 | -18.1 | 30 | 5.30 | 10 | 26.3 | 22.5 | 07 | 8.6 | 30 | 14 | 18.4 | 15.2 | 16 | 3.1 | 30 | 123 | | | | | | | | | | | | | | | | | | | | | | | | |
| 950 | 30 | 551 | 23.3 | 18.4 | 07 | 7.8 | 30 | 608 | -10.1 | -13.2 | 11 | 1.6 | 30 | 554 | 22.7 | 20.3 | 07 | 10.7 | 30 | 553 | 17.1 | 10.8 | 18 | 7.8 | 30 | 539 | | | | | | | | | | | | | | | | | | | | | | | |
| 900 | 30 | 102 | 20.3 | 14.6 | 08 | 3.9 | 30 | 892 | -11.2 | -13.4 | 12 | 1.9 | 30 | 1024 | 19.7 | 15.6 | 08 | 10.8 | 30 | 1015 | 15.2 | 4.5 | 19 | 8.5 | 30 | 982 | | | | | | | | | | | | | | | | | | | | | | | |
| 850 | 30 | 1517 | 9.7 | 9.7 | 08 | 6.7 | 30 | 1320 | -11.8 | -14.0 | 16 | 2.0 | 30 | 1518 | 17.5 | 12.8 | 08 | 9.2 | 30 | 1799 | 14.4 | -5.5 | 19 | 8.4 | 30 | 539 | | | | | | | | | | | | | | | | | | | | | | | |
| 800 | 30 | 2035 | 15.8 | 3.9 | 08 | 6.6 | 30 | 7.782 | -14.5 | -18.1 | 13 | 2.6 | 30 | 2034 | 15.7 | 7.0 | 08 | 6.9 | 30 | 2009 | 3.3 | -9.7 | 22 | 9.1 | 30 | 1932 | -7.8 | -8.6 | 27 | 1.6 | | | | | | | | | | | | | | | | | | | |
| 750 | 30 | 2578 | 13.5 | -9.0 | 08 | 5.8 | 30 | 2270 | -17.1 | -21.1 | 13 | 2.9 | 30 | 2580 | 13.6 | 3.0 | 09 | 4.8 | 30 | 2548 | 10.8 | -8.9 | 24 | 11.4 | 30 | 2441 | -4.1 | -11.1 | 29 | 3.2 | | | | | | | | | | | | | | | | | | | |
| 700 | 30 | 3159 | 10.7 | -5.0 | 09 | 5.3 | 30 | 2.784 | -20.1 | -25.6 | 14 | 3.1 | 30 | 3158 | 10.6 | -6.3 | 09 | 3.0 | 30 | 3121 | 8.1 | -12.4 | 25 | 12.7 | 30 | 2986 | -7.4 | -14.2 | 29 | 6.0 | | | | | | | | | | | | | | | | | | | |
| 650 | 30 | 3721 | 7.6 | -9.2 | 09 | 5.1 | 30 | 3328 | -23.5 | -29.9 | 14 | 3.3 | 30 | 3772 | 7.1 | -7.2 | 09 | 1.7 | 30 | 3724 | 4.3 | -15.8 | 25 | 14.7 | 30 | 3554 | -11.2 | -18.4 | 29 | 7.5 | | | | | | | | | | | | | | | | | | | |
| 600 | 30 | 4479 | 4.2 | -13.2 | 09 | 5.8 | 30 | 3911 | -27.4 | -34.9 | 14 | 3.5 | 30 | 4426 | 3.6 | -10.6 | 14 | 9.3 | 30 | 4373 | -5.5 | -18.4 | 25 | 15.9 | 30 | 4170 | -5.2 | -12.7 | 28 | 9.5 | | | | | | | | | | | | | | | | | | | |
| 550 | 30 | 5123 | 1.5 | -17.1 | 10 | 6.3 | 30 | 4530 | -31.6 | -39.0 | 15 | 3.9 | 30 | 5128 | -3.7 | -15.3 | 12 | 3.2 | 30 | 5055 | -5.6 | -21.2 | 25 | 17.5 | 30 | 4815 | -19.5 | -27.8 | 28 | 10.7 | | | | | | | | | | | | | | | | | | | |
| 500 | 30 | 5889 | -4.2 | -21.1 | 10 | 6.8 | 30 | 5200 | -33.0 | -40.4 | 15 | 4.0 | 30 | 5885 | -10.2 | -24.6 | 12 | 3.2 | 30 | 5810 | -12.2 | -26.5 | 25 | 19.5 | 30 | 5520 | -32.2 | -32.2 | 28 | 10.3 | | | | | | | | | | | | | | | | | | | |
| 450 | 30 | 6707 | -8.8 | -26.1 | 10 | 8.2 | 30 | 5924 | -41.2 | -45.4 | 17 | 3.9 | 30 | 6706 | -9.1 | -29.0 | 02 | 1.8 | 30 | 6600 | -16.0 | -30.0 | 26 | 23.3 | 30 | 6273 | -30.2 | -37.9 | 27 | 12.0 | | | | | | | | | | | | | | | | | | | |
| 400 | 30 | 7616 | -14.7 | -30.2 | 09 | 7.9 | 30 | 6716 | -46.4 | | 16 | 4.7 | 30 | 7608 | -14.9 | -34.5 | 33 | 2.4 | 30 | 7482 | -22.3 | -34.2 | 25 | 27.1 | 30 | 7111 | -36.7 | -43.4 | 27 | 13.5 | | | | | | | | | | | | | | | | | | | |
| 350 | 30 | 8614 | -21.4 | -37.0 | 09 | 6.6 | 30 | 7593 | -51.5 | | 18 | 3.6 | 30 | 8606 | -21.5 | -39.3 | 32 | 3.1 | 30 | 8450 | -29.1 | -40.3 | 26 | 32.7 | 30 | 8021 | -43.7 | -47.8 | 26 | 13.8 | | | | | | | | | | | | | | | | | | | |
| 300 | 30 | 9732 | -29.8 | -43.5 | 10 | 6.3 | 30 | 8586 | -53.6 | | 19 | 3.4 | 30 | 9724 | -29.6 | -45.9 | 27 | 5.6 | 30 | 9534</ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Average monthly values

APRIL 1970

[illegible]

| MERIDA, MEXICO
1011 MB | | | | | | | | | | MIAMI, FLA.
1017 MB | | | | | | | | | | MONTERREY, MEXICO
959 MB | | | | | | | | | | MONTGOMERY, ALA.
1010 MB | | | | | | | | | | * NANTUCKET, MASS.
1014 MB | | | | | | | | | |
|---------------------------|----|-------|-------|-------|----|------|----|-------|--------|------------------------|----|------|----|-------|--------|-------|----|------|-----|-----------------------------|--------|-------|----|------|----|--------|--------|-----|-------|-----------------------------|--|--|--|--|--|--|--|--|--|-------------------------------|--|--|--|--|--|--|--|--|--|
| SURFACE | 30 | 11 | 23.0 | 21.5 | 10 | 2.1 | 30 | 4 | 22.9 | 18.6 | 13 | 1.1 | 30 | 423 | 18.4 | 14.8 | 02 | .2 | 30 | 57 | 14.6 | 12.5 | 18 | .7 | 20 | 13 | 5.5 | 2.1 | 30 | 1.5 | | | | | | | | | | | | | | | | | | | |
| 1000 | 30 | 107 | 23.3 | 21.5 | 11 | 5.1 | 30 | 148 | 22.8 | 18.3 | 13 | 2.6 | 30 | 57 | | | | | 30 | 141 | 15.5 | 11.9 | 18 | 1.4 | 27 | 129 | | | 2 | 1.7 | | | | | | | | | | | | | | | | | | | |
| 950 | 30 | 557 | 22.0 | 19.3 | 13 | 12.3 | 30 | 593 | 24.4 | 15.9 | 19 | 3.0 | 30 | 501 | 18.4 | 14.7 | 06 | .6 | 30 | 579 | 15.8 | 14.4 | 23 | 3.4 | 20 | 529 | | | .6 | .3 | | | | | | | | | | | | | | | | | | | |
| 900 | 30 | 1026 | 21.3 | 11.7 | 14 | 9.6 | 30 | 1058 | 16.9 | 9.4 | 14 | 2.2 | 30 | 964 | 18.0 | 12.1 | 11 | .8 | 30 | 1037 | 14.1 | 1.2 | 25 | 4.8 | 28 | 988 | 2.8 | | 0.4 | 31 | | | | | | | | | | | | | | | | | | | |
| 850 | 30 | 1521 | 19.2 | 7.6 | 13 | 5.7 | 30 | 1355 | 15.6 | 1.6 | 18 | 1.5 | 30 | 1455 | 18.2 | 6.9 | 19 | 2.6 | 30 | 1518 | 11.9 | 1.5 | 25 | 6.2 | 29 | 1,650 | .8 | | -9.8 | 31 | | | | | | | | | | | | | | | | | | | |
| 800 | 30 | 2040 | 16.6 | 1.6 | 16 | 4.1 | 30 | 2058 | 14.0 | | 27 | 1.0 | 30 | 1973 | 17.6 | 1.3 | 21 | 4.3 | 30 | 2024 | 10.1 | -2.8 | 26 | 8.0 | 29 | 1,935 | -1.4 | | -12.9 | 31 | | | | | | | | | | | | | | | | | | | |
| 750 | 30 | 2589 | 14.8 | | 14 | 2.8 | 30 | 2598 | 11.7 | -7.4 | 30 | 1.7 | 30 | 2517 | 14.9 | -3.8 | 24 | 6.3 | 30 | 2557 | 8.1 | -8.9 | 26 | 10.4 | 29 | 2,644 | | | -15.6 | 30 | | | | | | | | | | | | | | | | | | | |
| 700 | 30 | 3188 | 12.0 | -10.1 | 14 | 2.6 | 30 | 3175 | 8.6 | -9.7 | 30 | 4.0 | 30 | 3102 | 11.5 | -7.0 | 25 | 8.0 | 30 | 3126 | 5.0 | -12.4 | 26 | 13.1 | 29 | 2,990 | | | -6.3 | 12 | | | | | | | | | | | | | | | | | | | |
| 650 | 30 | 3782 | 8.2 | -14.6 | 12 | 1.6 | 30 | 3765 | 4.6 | -14.1 | 30 | 7.5 | 30 | 3697 | 10.6 | -10.9 | 24 | 14.0 | 30 | 3726 | 1.5 | -15.8 | 28 | 16.3 | 29 | 3,342 | | | -22.2 | 29 | | | | | | | | | | | | | | | | | | | |
| 600 | 30 | 4400 | 4.0 | -18.7 | 10 | 1.6 | 30 | 4435 | 2.2 | -17.4 | 30 | 7.5 | 30 | 4367 | 1.6 | -13.1 | 23 | 12.0 | 30 | 4368 | -2.3 | -18.7 | 26 | 17.7 | 28 | 3,612 | | | -12.7 | 20.6 | | | | | | | | | | | | | | | | | | | |
| 550 | 30 | 5138 | | -22.8 | 16 | 1.3 | 30 | 5126 | -2.7 | -21.9 | 29 | 9.2 | 30 | 5056 | -4.0 | -16.4 | 23 | 12.9 | 30 | 5049 | -6.8 | -22.3 | 26 | 20.2 | 24 | 4,839 | | | -10.6 | -31.2 | | | | | | | | | | | | | | | | | | | |
| 500 | 30 | 5898 | -5.3 | -26.4 | 24 | 1.3 | 30 | 5882 | -7.5 | -25.8 | 29 | 12.6 | 30 | 5808 | -8.6 | -23.4 | 24 | 15.3 | 30 | 5790 | -12.1 | -25.7 | 27 | 27.2 | 28 | 5,532 | | | -12.0 | -35.4 | | | | | | | | | | | | | | | | | | | |
| 450 | 30 | 6715 | -10.8 | -30.8 | 24 | 1.9 | 30 | 6689 | -13.0 | -29.8 | 29 | 15.3 | 30 | 6617 | -13.6 | -29.4 | 25 | 18.2 | 30 | 6585 | -17.6 | -31.6 | 27 | 25.4 | 28 | 6,317 | | | -26.3 | -39.4 | | | | | | | | | | | | | | | | | | | |
| 400 | 30 | 7613 | -16.8 | -35.7 | 27 | 3.8 | 30 | 7582 | -19.4 | -35.2 | 29 | 17.2 | 30 | 7503 | -19.7 | -34.2 | 25 | 21.5 | 30 | 7462 | -23.6 | -37.6 | 27 | 28.0 | 28 | 7,164 | | | -32.1 | -44.1 | | | | | | | | | | | | | | | | | | | |
| 350 | 30 | 8602 | -24.3 | -41.5 | 26 | 6.9 | 30 | 8591 | -26.6 | -40.8 | 29 | 19.2 | 30 | 8480 | -26.9 | -39.3 | 25 | 24.7 | 30 | 8424 | -30.8 | -42.9 | 27 | 30.5 | 28 | 8,094 | | | -38.5 | -47.5 | | | | | | | | | | | | | | | | | | | |
| 300 | 30 | 9707 | -32.8 | -48.3 | 23 | 12.0 | 30 | 9700 | -35.2 | -47.8 | 29 | 24.2 | 30 | 9618 | -35.4 | -46.7 | 22 | 27.0 | 30 | 9578 | -39.3 | -48.9 | 27 | 35.8 | 2 | | | | | | | | | | | | | | | | | | | | | | | | |
| 250 | 30 | 10961 | -42.8 | | 28 | 10.7 | 30 | 10901 | -44.7 | | 29 | 24.2 | 30 | 10818 | -42.9 | | 26 | 29.0 | 30 | 10730 | -47.6 | | 27 | 39.7 | 28 | 10,337 | | | -51.5 | | | | | | | | | | | | | | | | | | | | |
| 200 | 30 | 12427 | -54.2 | | 28 | 14.2 | 30 | 12359 | -55.7 | | 29 | 28.8 | 30 | 12271 | -56.4 | | 25 | 31.2 | 30 | 12173 | -56.8 | | 28 | 43.6 | 28 | 11,773 | | | -54.7 | | | | | | | | | | | | | | | | | | | | |
| 175 | 30 | 13271 | -61.2 | | 27 | 14.4 | 30 | 13200 | -61.1 | | 29 | 29.6 | 30 | 13108 | -61.6 | | 25 | 32.4 | 30 | 13011 | -60.4 | | 28 | 43.2 | 28 | 12,626 | | | -55.2 | | | | | | | | | | | | | | | | | | | | |
| 150 | 30 | 14219 | -66.3 | | 27 | 15.5 | 30 | 14147 | -65.5 | | 29 | 26.2 | 30 | 14053 | -65.9 | | 26 | 34.5 | 30 | 13967 | -62.3 | | 27 | 38.5 | 28 | 13,612 | | | -54.7 | | | | | | | | | | | | | | | | | | | | |
| 125 | 30 | 15306 | -71.5 | | 27 | 15.6 | 30 | 15248 | -68.5 | | 29 | 23.2 | 30 | 15150 | -69.2 | | 26 | 27.1 | 30 | 15088 | -62.6 | | 27 | 32.8 | 28 | 14,778 | | | -55.3 | | | | | | | | | | | | | | | | | | | | |
| 100 | 30 | 16610 | -75.6 | | 27 | 10.6 | 30 | 16573 | -72.7 | | 29 | 18.1 | 30 | 16472 | -72.9 | | 26 | 20.8 | 30 | 16341 | -67.8 | | 27 | 24.3 | 28 | 16,197 | | | -56.4 | | | | | | | | | | | | | | | | | | | | |
| 75 | 30 | 17988 | -81.8 | | 28 | 1.9 | 30 | 17878 | -74.1 | | 29 | 15.2 | 30 | 17777 | -73.9 | | 25 | 14.5 | 30 | 17681 | -68.6 | | 27 | 25.3 | 28 | 17,617 | | | -57.8 | | | | | | | | | | | | | | | | | | | | |
| 50 | 30 | 18654 | -85.1 | | 26 | 1.8 | 30 | 18581 | -71.4 | | 30 | 6.0 | 30 | 18467 | -72.4 | | 26 | 9.8 | 30 | 18383 | -67.0 | | 28 | 10.9 | 25 | 18,777 | | | -57.9 | | | | | | | | | | | | | | | | | | | | |
| 25 | 30 | 19352 | -70.7 | | 12 | 1.4 | 30 | 19382 | -67.7 | | 35 | 2.3 | 30 | 19343 | -67.9 | | 25 | 1.4 | 30 | 19320 | -64.0 | | 28 | 7.0 | 25 | 19,436 | | | -56.2 | | | | | | | | | | | | | | | | | | | | |
| 0 | 30 | 20655 | -62.7 | | 07 | 2.8 | 30 | 20693 | -62.1 | | 04 | 2.4 | 30 | 20573 | -62.8 | | 14 | 5.8 | 30 | 20646 | -60.2 | | 29 | 3.3 | 26 | 20,596 | | | -55.3 | | | | | | | | | | | | | | | | | | | | |
| | 30 | 22046 | -57.6 | | 07 | 3.4 | 30 | 22091 | -57.1 | | 07 | 5.4 | 30 | 21993 | -58.1 | | 08 | 3.4 | 30 | 22052 | -56.5 | | 01 | 1.9 | 28 | 22,023 | | | -54.3 | | | | | | | | | | | | | | | | | | | | |
| | 30 | 22388 | -93.1 | | 07 | 6.3 | 30 | 22393 | -92.7 | | 07 | 6.6 | 30 | 22372 | -94.1 | | 07 | 4.6 | 30 | 22389 | -93.1 | | 03 | 1.5 | 26 | 22,387 | | | -93.3 | | | | | | | | | | | | | | | | | | | | |
| | 30 | 25006 | -51.1 | | 08 | 6.8 | 30 | 25017 | -49.9 | | 08 | 6.4 | 30 | 24998 | -51.6 | | 07 | 4.8 | 30 | 25074 | -51.2 | | 04 | 1.7 | 26 | 24,948 | | | -52.5 | | | | | | | | | | | | | | | | | | | | |
| | 30 | 26528 | -67.2 | | 08 | 8.3 | 30 | 26536 | -67.0 | | 08 | 7.1 | 30 | 26428 | -68.0 | | 07 | 4.9 | 30 | 26540 | -67.1 | | 05 | 1.7 | 25 | 26,611 | | | -65.3 | | | | | | | | | | | | | | | | | | | | |
| | 30 | 28445 | -83.8 | | 09 | 10.9 | 30 | 28451 | -83.7 | | 10 | 8.4 | 30 | 28412 | -84.0 | | 07 | 6.6 | 30 | 28464 | -83.8 | | 04 | 2.0 | 25 | 28,498 | | | -83.7 | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | 14 | 31,283 | -36.0 | | | | 31 | 31,086 | -38.4 | | 07 | 6.6 | 9 | 31,228 | -39.3 | | | | 31 | 31,125 | | | -40.4 | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | 11 | 33,551 | -35.1 | | | | | | | | | | 8 | 33,534 | | | -35.1 | | | | | | | | | | | | | | | | | | | |

| * NOME, ALASKA
1008 MB | | | | | | | | | | DMHAJ, NEBR.
963 MB | | | | | | | | | | * PAGO PAGO, AMERICAN SAMOA
1010 *B | | | | | | | | | | * PEORIA, ILL.
989 MB | | | | | | | | | | * POMAH, CAROLINE IS.
1006 MB | | | | | | | | | |
|---------------------------|----|-------|-------|-------|----|-----|----|-------|-------|------------------------|----|----|-------|-------|-------|-------|------|------|-------|--|-------|-------|------|------|-------|-------|-------|-------|-----|--------------------------|-------|-------|-------|-------|-----|------|--|--|--|----------------------------------|--|--|--|--|--|--|--|--|--|
| SURFACE | 30 | 5 | -10.8 | -15.2 | 09 | 2.1 | 30 | 403 | 5.6 | 1.7 | 14 | 4 | 30 | 5 | 29.2 | 25.2 | 06 | 2.4 | 30 | 200 | 6.5 | 3.1 | 16 | 6 | 30 | 39 | 28.3 | 24.1 | 27 | 4.6 | 30 | 39 | 28.3 | 24.1 | 27 | 4.6 | | | | | | | | | | | | | |
| 1000 | 30 | 60 | | | 02 | 2.0 | 30 | 87 | | | | 4 | 30 | 96 | 27.9 | 23.1 | 04 | 2.9 | 30 | 106 | | | | 6 | 30 | 89 | 27.4 | 22.6 | 27 | 5.1 | 30 | 89 | 27.4 | 22.6 | 27 | 5.1 | | | | | | | | | | | | | |
| 950 | 30 | 458 | -10.2 | -13.5 | 08 | 2.4 | 30 | 509 | | | | 4 | 30 | 547 | 24.1 | 19.7 | 03 | 3.5 | 30 | 536 | 8.1 | 1.3 | 24 | 2.4 | 30 | 537 | 23.3 | 18.6 | 08 | 18.2 | 30 | 537 | 23.3 | 18.6 | 08 | 18.2 | | | | | | | | | | | | | |
| 900 | 30 | 875 | -11.3 | -14.4 | 07 | 2.2 | 30 | 954 | 6.8 | -2.6 | 4 | 30 | 1022 | 21.0 | 16.1 | 07 | 4.1 | 30 | 1018 | 7.4 | -2.1 | 26 | 5.1 | 30 | 1005 | 21.0 | 16.1 | 07 | 4.1 | 30 | 1005 | 21.0 | 16.1 | 07 | 4.1 | | | | | | | | | | | | | | |
| 850 | 30 | 1311 | -11.9 | -15.9 | 05 | 1.6 | 30 | 1423 | 5.7 | -6.0 | 25 | 5 | 30 | 1445 | 5.2 | -4.6 | 27 | 6.4 | 30 | 1445 | 5.2 | -4.6 | 27 | 6.4 | 30 | 1445 | 5.2 | -4.6 | 27 | 6.4 | 30 | 1445 | 5.2 | -4.6 | 27 | 6.4 | | | | | | | | | | | | | |
| 800 | 30 | 1774 | -13.9 | -18.8 | 05 | 1.6 | 30 | 1917 | 3.1 | -7.1 | 28 | 7 | 30 | 2035 | 15.9 | 8.7 | 02 | 3.2 | 30 | 1938 | 2.7 | -8.1 | 27 | 7.6 | 30 | 2022 | 15.9 | 8.7 | 02 | 3.2 | 30 | 2022 | 15.9 | 8.7 | 02 | 3.2 | | | | | | | | | | | | | |
| 750 | 30 | 2476 | -16.6 | -22.4 | 04 | 1.3 | 30 | 2435 | 1 | -9.9 | 26 | 8 | 30 | 2579 | 13.1 | 4.0 | 01 | 2.6 | 30 | 2456 | -4.1 | -11.5 | 27 | 9.7 | 30 | 2569 | 13.2 | 6.4 | 10 | 4.9 | 30 | 2569 | 13.2 | 6.4 | 10 | 4.9 | | | | | | | | | | | | | |
| 700 | 30 | 2978 | -19.4 | -25.9 | 04 | 1.8 | 30 | 2988 | -3.2 | -14.2 | 27 | 10 | 30 | 3160 | 9.8 | -6.36 | | 2.7 | 30 | 3007 | -3.5 | -15.1 | 27 | 10.9 | 30 | 3147 | 10.4 | 1.6 | 11 | 3.9 | 30 | 3147 | 10.4 | 1.6 | 11 | 3.9 | | | | | | | | | | | | | |
| 650 | 30 | 3323 | -22.8 | -30.1 | 06 | 7 | 30 | 3505 | -6.9 | -18.2 | 27 | 12 | 30 | 3772 | 6.6 | -4.3 | 34 | 2.5 | 30 | 3586 | -7.1 | -19.4 | 27 | 12.9 | 30 | 3761 | 7.1 | -0.5 | 11 | 4.2 | 30 | 3761 | 7.1 | -0.5 | 11 | 4.2 | | | | | | | | | | | | | |
| 600 | 30 | 3908 | -26.5 | -34.9 | 06 | 3 | 30 | 4191 | -10.9 | -22.0 | 26 | 13 | 30 | 4427 | 3.1 | -8.1 | 33 | 3.9 | 30 | 4210 | -10.9 | -23.9 | 27 | 14.9 | 30 | 4415 | 3.6 | -12.1 | 10 | 3.9 | 30 | 4415 | 3.6 | -12.1 | 10 | 3.9 | | | | | | | | | | | | | |
| 550 | 30 | 4509 | -29.7 | -39.3 | 32 | 1.3 | 30 | 4851 | -15.2 | -26.3 | 26 | 15 | 30 | 5123 | -8 | -13.0 | 32 | 2 | 30 | 4596 | -3.5 | -14.9 | 27 | 16.9 | 30 | 5113 | -4.1 | -15.9 | 08 | 4.4 | 30 | 5113 | -4.1 | -15.9 | 08 | 4.4 | | | | | | | | | | | | | |
| 500 | 30 | 5052 | -32.5 | -42.1 | 16 | 1.8 | 30 | 5269 | -31.0 | -42.6 | 26 | 17 | 30 | 5540 | -19.0 | -31.7 | 27 | 18.7 | 30 | 5090 | -19.0 | -31.7 | 27 | 18.7 | 30 | 5105 | -20.1 | -30.9 | 08 | 4.6 | 30 | 5105 | -20.1 | -30.9 | 08 | 4.6 | | | | | | | | | | | | | |
| 450 | 30 | 5627 | -40.3 | -44.3 | 31 | 1.3 | 30 | 6337 | -25.5 | -36.1 | 26 | 18 | 30 | 6701 | -9.6 | -23.7 | 30 | 2.2 | 30 | 6059 | -25.0 | -36.9 | 26 | 20.9 | 30 | 6698 | -9.9 | -25.6 | 08 | 5.1 | 30 | 6698 | -9.9 | -25.6 | 08 | 5.1 | | | | | | | | | | | | | |
| 400 | 30 | 6174 | -45.5 | | 32 | 2 | 30 | 7188 | -31.4 | -42.6 | 26 | 21 | 30 | 7609 | -15.2 | -29.2 | 27 | 2.4 | 30 | 7421 | -31.0 | -42.6 | 27 | 23.4 | 30 | 7605 | -14.9 | -31.0 | 08 | 4.2 | 30 | 7605 | -14.9 | -31.0 | 08 | 4.2 | | | | | | | | | | | | | |
| 350 | 30 | 7604 | -50.4 | | 32 | 2.9 | 30 | 8120 | -38.2 | -47.2 | 25 | 25 | 30 | 8605 | -22.1 | -35.7 | 25 | 5.0 | 30 | 8045 | -37.7 | -48.0 | 27 | 26.8 | 30 | 8605 | -22.7 | -37.1 | 07 | 3.0 | 30 | 8605 | -22.7 | -37.1 | 07 | 3.0 | | | | | | | | | | | | | |
| 300 | 30 | 8603 | -52.8 | | 29 | 5 | 30 | 9154 | -45.7 | | 25 | 27 | 30 | 9720 | -30.7 | -43.6 | 25 | 7.0 | 30 | 9493 | -44.5 | | 27 | 30.6 | 30 | 9727 | -29.0 | -44.4 | 13 | 2.5 | 30 | 9727 | -29.0 | -44.4 | 13 | 2.5 | | | | | | | | | | | | | |
| 250 | 30 | 9785 | -50.5 | | 28 | 5 | 30 | 10359 | -52.7 | | 26 | 30 | 10987 | -40.7 | -50.8 | 25 | 10.0 | 30 | 10395 | -51.2 | | 26 | 36.7 | 30 | 11003 | -39.5 | -53.3 | 18 | 3.5 | 30 | 11003 | -39.5 | -53.3 | 18 | 3.5 | | | | | | | | | | | | | | |
| 200 | 30 | 11249 | -58.6 | | 26 | 5.8 | 30 | 11795 | -56.1 | | 26 | 32 | 30 | 12468 | -52.8 | | 28 | 13.8 | 30 | 11830 | -55.4 | -68.2 | 27 | 37.3 | 30 | 12490 | -55.1 | -68.2 | 19 | 3.8 | 30 | 12490 | -55.1 | -68.2 | 19 | 3.8 | | | | | | | | | | | | | |
| 175 | 30 | 12127 | -68.4 | | 24 | 6.0 | 30 | 12695 | -55.2 | | 26 | 33 | 30 | 13216 | -58.7 | | 27 | 15.8 | 30 | 12692 | -55.1 | | 27 | 35.4 | 30 | 13341 | -59.0 | | 19 | 3.0 | 30 | 13341 | -59.0 | | 19 | 3.0 | | | | | | | | | | | | | |
| 150 | 30 | 13143 | -68.2 | | 25 | 5 | 30 | 13621 | -54.5 | | 26 | 29 | 30 | 14265 | -66.5 | | 22 | 12.2 | 30 | 13656 | -55.2 | | 27 | 31.7 | 30 | 14290 | -66.7 | | 17 | 2.0 | 30 | 14290 | -66.7 | | 17 | 2.0 | | | | | | | | | | | | | |
| 125 | 30 | 14345 | -67.9 | | 29 | 5.6 | 30 | 14787 | -55.1 | | 26 | 22 | 30 | 15350 | -73.5 | | 23 | 9.8 | 30 | 14828 | -56.1 | | 27 | 26.2 | 30 | 15370 | -74.9 | | 34 | 1.4 | 30 | 15370 | -74.9 | | 34 | 1.4 | | | | | | | | | | | | | |
| 100 | 30 | 15818 | -67.5 | | 24 | 5.4 | 30 | 16205 | -57.0 | | 26 | 17 | 30 | 16632 | -80.1 | | 23 | 5.8 | 30 | 16038 | -58.6 | | 27 | 20.1 | 30 | 16640 | -82.2 | | 33 | 2.8 | 30 | 16640 | -82.2 | | 33 | 2.8 | | | | | | | | | | | | | |
| 80 | 30 | 17293 | -67.4 | | 23 | 4.5 | 30 | 17612 | -58.5 | | 26 | 13 | 30 | 17893 | -78.4 | | 15 | 3.1 | 30 | 17617 | -59.1 | | 27 | 14.5 | 30 | 17887 | -80.7 | | 28 | 1.8 | 30 | 17887 | -80.7 | | 28 | 1.8 | | | | | | | | | | | | | |
| 70 | 30 | 18176 | -67.3 | | 23 | 4.5 | 30 | 18450 | -57.8 | | 26 | 9 | 30 | 18606 | -73.3 | | 11 | 4.2 | 30 | 18476 | -58.3 | | 27 | 10.6 | 30 | 18649 | -75.0 | | 24 | 5.8 | 30 | 18649 | -75.0 | | 24 | 5.8 | | | | | | | | | | | | | |
| 60 | 30 | 19176 | -67.4 | | 23 | 3.9 | 30 | 19424 | -57.1 | | 26 | 7 | 30 | 19577 | -69.4 | | 10 | 6.2 | 30 | 19457 | -58.7 | | 27 | 7 | 30 | 19627 | -75.9 | | 24 | 5.3 | 30 | 19627 | -75.9 | | 24 | 5.3 | | | | | | | | | | | | | |
| 50 | 30 | 20402 | -67.1 | | 21 | 3 | 30 | 20680 | -56.6 | | 26 | 5 | 30 | 20775 | -68.0 | | 10 | 6.2 | 30 | 20705 | -60.5 | | 27 | 5.9 | 30 | 20852 | -65.2 | | 26 | 2.6 | 30 | 20852 | -65.2 | | 26 | 2.6 | | | | | | | | | | | | | |
| 40 | 30 | 21880 | -67.2 | | 19 | 2.6 | 30 | 22001 | -55.1 | | 28 | 5 | 30 | 22205 | -59.6 | | 10 | 11.6 | 30 | 22024 | -55.2 | | 30 | 4 | 30 | 22222 | -61.8 | | 29 | 7.7 | 30 | 22222 | -61.8 | | 29 | 7.7 | | | | | | | | | | | | | |
| 30 | 30 | 23783 | -67.3 | | 17 | 1.2 | 30 | 23847 | -53.7 | | 29 | 4 | 30 | 23983 | -54.1 | | 10 | 12.6 | 30 | 23957 | -53.4 | | 29 | 5 | 30 | 23922 | -56.7 | | 29 | 22.0 | 30 | 23922 | -56.7 | | 29 | 22.0 | | | | | | | | | | | | | |
| 25 | 30 | 24989 | -67.6 | | 08 | 1.0 | 30 | 25109 | -53.3 | | 29 | 5 | 30 | 25206 | -51.9 | | 29 | 25.3 | 30 | 25133 | -52.4 | | 29 | 7 | 30 | 25492 | -53.5 | | 29 | 25.6 | 30 | 25492 | -53.5 | | 29 | 25.6 | | | | | | | | | | | | | |
| 20 | 30 | 26458 | -67.1 | | 06 | 0.6 | 30 | 26450 | -52.2 | | 29 | 8 | 30 | 26522 | -49.0 | | | | 30 | 26479 | -51.4 | | 28 | 9 | 30 | 26441 | -44.7 | | 29 | 26.7 | 30 | 26441 | -44.7 | | 29 | 26.7 | | | | | | | | | | | | | |
| 15 | 30 | 28306 | -66.1 | | 17 | 4.4 | 30 | 28393 | -49.4 | | 29 | 12 | 30 | | | | | | 30 | 28399 | -49.4 | | 27 | 14 | 30 | 28933 | -45.9 | | | | | | | | | | | | | | | | | | | | | | |
| 10 | 30 | 31071 | | | 07 | 7 | 30 | 31025 | -43.7 | | | | | | | | | | 30 | 31059 | | | 26 | 13 | 30 | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | 30 | | -80.0 | | 05 | | | | | | | | | | | | | | 30 | 33358 | -33.8 | | 25 | 31 | 30 | | | | | | | | | | | | | | | | | | | | | | | | |

Average monthly values

APRIL 1970

| SOUTHERN ALASKA
1012 MB | | | | | | | | | | | | RAPID CITY, S. DAK.
900 MB | | | | | | | | | | | | ST. CLOUD, MINN.
973 MB | | | | | | | | | | | | ST. PAUL IS., ALASKA
1006 MB | | | | | | | | | | | | SALEM, OREG.
1014 MB | | | | | | | | | | | |
|-----------------------------------|-------|--------------------|----|----------------|-----|-------------|-----|-----------|-----|-----------|-----|-------------------------------|-----|--------------------|-----|----------------|------|-------------|----|-----------|----|-----------|------|----------------------------|-----|--------------------|----|----------------|-----|-------------|-----|-----------|----|-----------|------|---------------------------------|-----|--------------------|----|----------------|-----|-------------|-----|-----------|--|-----------|--|-------------------------|--|--|--|--|--|--|--|--|--|--|--|
| Standard pressure
surface (mb) | | No of observations | | Dynamic height | | Temperature | | Dew Point | | Direction | | Speed | | No of observations | | Dynamic height | | Temperature | | Dew Point | | Direction | | Speed | | No of observations | | Dynamic height | | Temperature | | Dew Point | | Direction | | Speed | | No of observations | | Dynamic height | | Temperature | | Dew Point | | Direction | | Speed | | | | | | | | | | | |
| 5 | 942.0 | 30 | 58 | 3.9 | 2.7 | 1.4 | 1.0 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 30 | 316 | .9 | -2.6 | 21 | .4 | 30 | 10 | -3.4 | -5.3 | 01 | 2.7 | 30 | 61 | 4.3 | 1.4 | 19 | 2.2 | 30 | 57 | -3.4 | -5.3 | 01 | 2.7 | 30 | 61 | 4.3 | 1.4 | 19 | 2.2 | | | | | | | | | | | | | | | | |
| 5 | 942.0 | 30 | 58 | 3.9 | 2.7 | 1.4 | 1.0 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 30 | 316 | .9 | -2.6 | 21 | .4 | 30 | 10 | -3.4 | -5.3 | 01 | 2.7 | 30 | 61 | 4.3 | 1.4 | 19 | 2.2 | 30 | 57 | -3.4 | -5.3 | 01 | 2.7 | 30 | 61 | 4.3 | 1.4 | 19 | 2.2 | | | | | | | | | | | | | | | | |
| 5 | 942.0 | 30 | 58 | 3.9 | 2.7 | 1.4 | 1.0 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 30 | 316 | .9 | -2.6 | 21 | .4 | 30 | 10 | -3.4 | -5.3 | 01 | 2.7 | 30 | 61 | 4.3 | 1.4 | 19 | 2.2 | 30 | 57 | -3.4 | -5.3 | 01 | 2.7 | 30 | 61 | 4.3 | 1.4 | 19 | 2.2 | | | | | | | | | | | | | | | | |
| 5 | 942.0 | 30 | 58 | 3.9 | 2.7 | 1.4 | 1.0 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 30 | 316 | .9 | -2.6 | 21 | .4 | 30 | 10 | -3.4 | -5.3 | 01 | 2.7 | 30 | 61 | 4.3 | 1.4 | 19 | 2.2 | 30 | 57 | -3.4 | -5.3 | 01 | 2.7 | 30 | 61 | 4.3 | 1.4 | 19 | 2.2 | | | | | | | | | | | | | | | | |
| 5 | 942.0 | 30 | 58 | 3.9 | 2.7 | 1.4 | 1.0 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 30 | 316 | .9 | -2.6 | 21 | .4 | 30 | 10 | -3.4 | -5.3 | 01 | 2.7 | 30 | 61 | 4.3 | 1.4 | 19 | 2.2 | 30 | 57 | -3.4 | -5.3 | 01 | 2.7 | 30 | 61 | 4.3 | 1.4 | 19 | 2.2 | | | | | | | | | | | | | | | | |
| 5 | 942.0 | 30 | 58 | 3.9 | 2.7 | 1.4 | 1.0 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 30 | 316 | .9 | -2.6 | 21 | .4 | 30 | 10 | -3.4 | -5.3 | 01 | 2.7 | 30 | 61 | 4.3 | 1.4 | 19 | 2.2 | 30 | 57 | -3.4 | -5.3 | 01 | 2.7 | 30 | 61 | 4.3 | 1.4 | 19 | 2.2 | | | | | | | | | | | | | | | | |
| 5 | 942.0 | 30 | 58 | 3.9 | 2.7 | 1.4 | 1.0 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 30 | 316 | .9 | -2.6 | 21 | .4 | 30 | 10 | -3.4 | -5.3 | 01 | 2.7 | 30 | 61 | 4.3 | 1.4 | 19 | 2.2 | 30 | 57 | -3.4 | -5.3 | 01 | 2.7 | 30 | 61 | 4.3 | 1.4 | 19 | 2.2 | | | | | | | | | | | | | | | | |
| 5 | 942.0 | 30 | 58 | 3.9 | 2.7 | 1.4 | 1.0 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 30 | 316 | .9 | -2.6 | 21 | .4 | 30 | 10 | -3.4 | -5.3 | 01 | 2.7 | 30 | 61 | 4.3 | 1.4 | 19 | 2.2 | 30 | 57 | -3.4 | -5.3 | 01 | 2.7 | 30 | 61 | 4.3 | 1.4 | 19 | 2.2 | | | | | | | | | | | | | | | | |
| 5 | 942.0 | 30 | 58 | 3.9 | 2.7 | 1.4 | 1.0 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 30 | 316 | .9 | -2.6 | 21 | .4 | 30 | 10 | -3.4 | -5.3 | 01 | 2.7 | 30 | 61 | 4.3 | 1.4 | 19 | 2.2 | 30 | 57 | -3.4 | -5.3 | 01 | 2.7 | 30 | 61 | 4.3 | 1.4 | 19 | 2.2 | | | | | | | | | | | | | | | | |
| 5 | 942.0 | 30 | 58 | 3.9 | 2.7 | 1.4 | 1.0 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 30 | 316 | .9 | -2.6 | 21 | .4 | 30 | 10 | -3.4 | -5.3 | 01 | 2.7 | 30 | 61 | 4.3 | 1.4 | 19 | 2.2 | 30 | 57 | -3.4 | -5.3 | 01 | 2.7 | 30 | 61 | 4.3 | 1.4 | 19 | 2.2 | | | | | | | | | | | | | | | | |
| 5 | 942.0 | 30 | 58 | 3.9 | 2.7 | 1.4 | 1.0 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 30 | 316 | .9 | -2.6 | 21 | .4 | 30 | 10 | -3.4 | -5.3 | 01 | 2.7 | 30 | 61 | 4.3 | 1.4 | 19 | 2.2 | 30 | 57 | -3.4 | -5.3 | 01 | 2.7 | 30 | 61 | 4.3 | 1.4 | 19 | 2.2 | | | | | | | | | | | | | | | | |
| 5 | 942.0 | 30 | 58 | 3.9 | 2.7 | 1.4 | 1.0 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 30 | 316 | .9 | -2.6 | 21 | .4 | 30 | 10 | -3.4 | -5.3 | 01 | 2.7 | 30 | 61 | 4.3 | 1.4 | 19 | 2.2 | 30 | 57 | -3.4 | -5.3 | 01 | 2.7 | 30 | 61 | 4.3 | 1.4 | 19 | 2.2 | | | | | | | | | | | | | | | | |
| 5 | 942.0 | 30 | 58 | 3.9 | 2.7 | 1.4 | 1.0 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 30 | 316 | .9 | -2.6 | 21 | .4 | 30 | 10 | -3.4 | -5.3 | 01 | 2.7 | 30 | 61 | 4.3 | 1.4 | 19 | 2.2 | 30 | 57 | -3.4 | -5.3 | 01 | 2.7 | 30 | 61 | 4.3 | 1.4 | 19 | 2.2 | | | | | | | | | | | | | | | | |
| 5 | 942.0 | 30 | 58 | 3.9 | 2.7 | 1.4 | 1.0 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 30 | 316 | .9 | -2.6 | 21 | .4 | 30 | 10 | -3.4 | -5.3 | 01 | 2.7 | 30 | 61 | 4.3 | 1.4 | 19 | 2.2 | 30 | 57 | -3.4 | -5.3 | 01 | 2.7 | 30 | 61 | 4.3 | 1.4 | 19 | 2.2 | | | | | | | | | | | | | | | | |
| 5 | 942.0 | 30 | 58 | 3.9 | 2.7 | 1.4 | 1.0 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 30 | 316 | .9 | -2.6 | 21 | .4 | 30 | 10 | -3.4 | -5.3 | 01 | 2.7 | 30 | 61 | 4.3 | 1.4 | 19 | 2.2 | 30 | 57 | -3.4 | -5.3 | 01 | 2.7 | 30 | 61 | 4.3 | 1.4 | 19 | 2.2 | | | | | | | | | | | | | | | | |
| 5 | 942.0 | 30 | 58 | 3.9 | 2.7 | 1.4 | 1.0 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 30 | 316 | .9 | -2.6 | 21 | .4 | 30 | 10 | -3.4 | -5.3 | 01 | 2.7 | 30 | 61 | 4.3 | 1.4 | 19 | 2.2 | 30 | 57 | -3.4 | -5.3 | 01 | 2.7 | 30 | 61 | 4.3 | 1.4 | 19 | 2.2 | | | | | | | | | | | | | | | | |
| 5 | 942.0 | 30 | 58 | 3.9 | 2.7 | 1.4 | 1.0 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 30 | 316 | .9 | -2.6 | 21 | .4 | 30 | 10 | -3.4 | -5.3 | 01 | 2.7 | 30 | 61 | 4.3 | 1.4 | 19 | 2.2 | 30 | 57 | -3.4 | -5.3 | 01 | 2.7 | 30 | 61 | 4.3 | 1.4 | 19 | 2.2 | | | | | | | | | | | | | | | | |
| 5 | 942.0 | 30 | 58 | 3.9 | 2.7 | 1.4 | 1.0 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 30 | 316 | .9 | -2.6 | 21 | .4 | 30 | 10 | -3.4 | -5.3 | 01 | 2.7 | 30 | 61 | 4.3 | 1.4 | 19 | 2.2 | 30 | 57 | -3.4 | -5.3 | 01 | 2.7 | 30 | 61 | 4.3 | 1.4 | 19 | 2.2 | | | | | | | | | | | | | | | | |
| 5 | 942.0 | 30 | 58 | 3.9 | 2.7 | 1.4 | 1.0 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 30 | 316 | .9 | -2.6 | 21 | .4 | 30 | 10 | -3.4 | -5.3 | 01 | 2.7 | 30 | 61 | 4.3 | 1.4 | 19 | 2.2 | 30 | 57 | -3.4 | -5.3 | 01 | 2.7 | 30 | 61 | 4.3 | 1.4 | 19 | 2.2 | | | | | | | | | | | | | | | | |
| 5 | 942.0 | 30 | 58 | 3.9 | 2.7 | 1.4 | 1.0 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 30 | 316 | .9 | -2.6 | 21 | .4 | 30 | 10 | -3.4 | -5.3 | 01 | 2.7 | 30 | 61 | 4.3 | 1.4 | 19 | 2.2 | 30 | 57 | -3.4 | -5.3 | 01 | 2.7 | 30 | 61 | 4.3 | 1.4 | 19 | 2.2 | | | | | | | | | | | | | | | | |
| 5 | 942.0 | 30 | 58 | 3.9 | 2.7 | 1.4 | 1.0 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 30 | 316 | .9 | -2.6 | 21 | .4 | 30 | 10 | -3.4 | -5.3 | 01 | 2.7 | 30 | 61 | 4.3 | 1.4 | 19 | 2.2 | 30 | 57 | -3.4 | -5.3 | 01 | 2.7 | 30 | 61 | 4.3 | 1.4 | 19 | 2.2 | | | | | | | | | | | | | | | | |
| 5 | 942.0 | 30 | 58 | 3.9 | 2.7 | 1.4 | 1.0 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 30 | 316 | .9 | -2.6 | 21 | .4 | 30 | 10 | -3.4 | -5.3 | 01 | 2.7 | 30 | 61 | 4.3 | 1.4 | 19 | 2.2 | 30 | 57 | -3.4 | -5.3 | 01 | 2.7 | 30 | 61 | 4.3 | 1.4 | 19 | 2.2 | | | | | | | | | | | | | | | | |
| 5 | 942.0 | 30 | 58 | 3.9 | 2.7 | 1.4 | 1.0 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 30 | 316 | .9 | -2.6 | 21 | .4 | 30 | 10 | -3.4 | -5.3 | 01 | 2.7 | 30 | 61 | 4.3 | 1.4 | 19 | 2.2 | 30 | 57 | -3.4 | -5.3 | 01 | 2.7 | 30 | 61 | 4.3 | 1.4 | 19 | 2.2 | | | | | | | | | | | | | | | | |
| 5 | 942.0 | 30 | 58 | 3.9 | 2.7 | 1.4 | 1.0 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 30 | 316 | .9 | -2.6 | 21 | .4 | 30 | 10 | -3.4 | -5.3 | 01 | 2.7 | 30 | 61 | 4.3 | 1.4 | 19 | 2.2 | 30 | 57 | -3.4 | -5.3 | 01 | 2.7 | 30 | 61 | 4.3 | 1.4 | 19 | 2.2 | | | | | | | | | | | | | | | | |
| 5 | 942.0 | 30 | 58 | 3.9 | 2.7 | 1.4 | 1.0 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 30 | 316 | .9 | -2.6 | 21 | .4 | 30 | 10 | -3.4 | -5.3 | 01 | 2.7 | 30 | 61 | 4.3 | 1.4 | 19 | 2.2 | 30 | 57 | -3.4 | -5.3 | 01 | 2.7 | 30 | 61 | 4.3 | 1.4 | 19 | 2.2 | | | | | | | | | | | | | | | | |
| 5 | 942.0 | 30 | 58 | 3.9 | 2.7 | 1.4 | 1.0 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 30 | 316 | .9 | -2.6 | 21 | .4 | 30 | 10 | -3.4 | -5.3 | 01 | 2.7 | 30 | 61 | 4.3 | 1.4 | 19 | 2.2 | 30 | 57 | -3.4 | -5.3 | 01 | 2.7 | 30 | 61 | 4.3 | 1.4 | 19 | 2.2 | | | | | | | | | | | | | | | | |
| 5 | 942.0 | 30 | 58 | 3.9 | 2.7 | 1.4 | 1.0 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 30 | 316 | .9 | -2.6 | 21 | .4 | 30 | 10 | -3.4 | -5.3 | 01 | 2.7 | 30 | 61 | 4.3 | 1.4 | 19 | 2.2 | 30 | 57 | -3.4 | -5.3 | 01 | 2.7 | 30 | 61 | 4.3 | 1.4 | 19 | 2.2 | | | | | | | | | | | | | | | | |
| 5 | 942.0 | 30 | 58 | 3.9 | 2.7 | 1.4 | 1.0 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 30 | 316 | .9 | -2.6 | 21 | .4 | 30 | 10 | -3.4 | -5.3 | 01 | 2.7 | 30 | 61 | 4.3 | 1.4 | 19 | 2.2 | 30 | 57 | -3.4 | -5.3 | 01 | 2.7 | 30 | 61 | 4.3 | 1.4 | 19 | 2.2 | | | | | | | | | | | | | | | | |
| 5 | 942.0 | 30 | 58 | 3.9 | 2.7 | 1.4 | 1.0 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 30 | 316 | .9 | -2.6 | 21 | .4 | 30 | 10 | -3.4 | -5.3 | 01 | 2.7 | 30 | 61 | 4.3 | 1.4 | 19 | 2.2 | 30 | 57 | -3.4 | -5.3 | 01 | 2.7 | 30 | 61 | 4.3 | 1.4 | 19 | 2.2 | | | | | | | | | | | | | | | | |
| 5 | 942.0 | 30 | 58 | 3.9 | 2.7 | 1.4 | 1.0 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 30 | 316 | .9 | -2.6 | 21 | .4 | 30 | 10 | -3.4 | -5.3 | 01 | 2.7 | 30 | 61 | 4.3 | 1.4 | 19 | 2.2 | 30 | 57 | -3.4 | -5.3 | 01 | 2.7 | 30 | 61 | 4.3 | 1.4 | 19 | 2.2 | | | | | | | | | | | | | | | | |
| 5 | 942.0 | 30 | 58 | 3.9 | 2.7 | 1.4 | 1.0 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 30 | 316 | .9 | -2.6 | 21 | .4 | 30 | 10 | -3.4 | -5.3 | 01 | 2.7 | 30 | 61 | 4.3 | 1.4 | 19 | 2.2 | 30 | 57 | -3.4 | -5.3 | 01 | 2.7 | 30 | 61 | 4.3 | 1.4 | 19 | 2.2 | | | | | | | | | | | | | | | | |
| 5 | 942.0 | 30 | 58 | 3.9 | 2.7 | 1.4 | 1.0 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 30 | 316 | .9 | -2.6 | 21 | .4 | 30 | 10 | -3.4 | -5.3 | 01 | 2.7 | 30 | 61 | 4.3 | 1.4 | 19 | 2.2 | 30 | 57 | -3.4 | -5.3 | 01 | 2.7 | 30 | 61 | 4.3 | 1.4 | 19 | 2.2 | | | | | | | | | | | | | | | | |
| 5 | 942.0 | 30 | 58 | 3.9 | 2.7 | 1.4 | 1.0 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 30 | 316 | .9 | -2.6 | 21 | .4 | 30 | 10 | -3.4 | -5.3 | 01 | 2.7 | 30 | 61 | 4.3 | 1.4 | 19 | 2.2 | 30 | 57 | -3.4 | -5.3 | 01 | 2.7 | 30 | 61 | 4.3 | 1.4 | 19 | 2.2 | | | | | | | | | | | | | | | | |
| 5 | 942.0 | 30 | 58 | 3.9 | 2.7 | 1.4 | 1.0 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 30 | 316 | .9 | -2.6 | 21 | .4 | 30 | 10 | -3.4 | -5.3 | 01 | 2.7 | 30 | 61 | 4.3 | 1.4 | 19 | 2.2 | 30 | 57 | -3.4 | -5.3 | 01 | 2.7 | 30 | 61 | 4.3 | 1.4 | 19 | 2.2 | | | | | | | | | | | | | | | | |
| 5 | 942.0 | 30 | 58 | 3.9 | 2.7 | 1.4 | 1.0 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 30 | 316 | .9 | -2.6 | 21 | .4 | 30 | 10 | -3.4 | -5.3 | 01 | 2.7 | 30 | 61 | 4.3 | 1.4 | 19 | 2.2 | 30 | 57 | -3.4 | -5.3 | 01 | 2.7 | 30 | 61 | 4.3 | 1.4 | 19 | 2.2 | | | | | | | | | | | | | | | | |
| 5 | 942.0 | 30 | 58 | 3.9 | 2.7 | 1.4 | 1.0 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 30 | 316 | .9 | -2.6 | 21 | .4 | 30 | 10 | -3.4 | -5.3 | 01 | 2.7 | 30 | 61 | 4.3 | 1.4 | 19 | 2.2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| SAN JUAN, P. R.
1016 MB | | | | | | | | | | | | SAN NICOLAS, CALIF.
995 MB | | | | | | | | | | | | SAULT STE MARIE, MICH.
986 MB | | | | | | | | | | | | SHEWAN, ALASKA
1003 MB | | | | | | | | | | | | SHREVEPORT, LA.
1003 MB | | | | | | | | | | | |
|----------------------------|----|--------|-------|-------|-----|------|------|--------|-------|-------|----|-------------------------------|-----|--------|-------|-------|-----|------|----|--------|-------|-------|----|----------------------------------|--------|--------|-------|-------|----|------|--|--|--|--|--|---------------------------|--|--|--|--|--|--|--|--|--|--|--|----------------------------|--|--|--|--|--|--|--|--|--|--|--|
| S. RACE | 30 | 6 | 24.6 | 19.2 | 1.7 | 1.6 | 25 | 174 | 11.3 | 0.8 | 31 | 5.7 | 30 | 221 | 2 | -3.6 | 0.8 | 14 | 30 | 38 | 1.3 | -3.9 | 04 | 1.0 | 28 | 79 | 16.0 | 13.0 | 17 | 1.4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1000 | 30 | 14.6 | 23.5 | 18.4 | 1.7 | 4.1 | 25 | 132 | | | | 30 | 107 | | | | | 30 | 59 | | | | | 1.4 | 28 | 101 | | | 18 | 1.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 950 | 30 | 591 | 20.1 | 15.7 | 0.9 | 6.2 | 25 | 505 | 14.3 | -1.9 | 33 | 6.8 | 30 | 519 | 1.3 | -4.2 | 14 | 1.8 | 30 | 466 | -2.6 | -5.0 | 33 | 1.4 | 28 | 543 | 16.0 | 10.2 | 20 | 6.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 900 | 30 | 19.0 | 16.1 | 11.9 | 0.9 | 5.2 | 25 | 1020 | 12.1 | -5.9 | 33 | 6.2 | 30 | 954 | 1.5 | -5.4 | 23 | 3.0 | 30 | 896 | -5.5 | -6.0 | 31 | 1.0 | 28 | 998 | 14.1 | 7.6 | 22 | 8.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 850 | 30 | 15.3 | 10.0 | 8.1 | 0.8 | 4.2 | 25 | 1.1 | 10.4 | -10.4 | 33 | 13.7 | 30 | 14.1 | 1.1 | -7.5 | 24 | 6.3 | 30 | 1367 | -7.1 | -10.6 | 30 | 1.8 | 28 | 1481 | 17.1 | 2.3 | 20 | 10.9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 800 | 30 | 20.53 | 12.3 | 2.0 | 0.8 | 3.6 | 25 | 1.994 | 6.2 | -14.4 | 32 | 6.4 | 30 | 1.892 | -3.5 | -10.1 | 26 | 7.2 | 30 | 1.813 | -9.5 | -16.7 | 30 | 2.1 | 28 | 1.989 | 10.8 | -1.6 | 25 | 10.9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 750 | 30 | 2.593 | 10.9 | 7.4 | 0.4 | 2.6 | 25 | 2.520 | 3.5 | -19.2 | 31 | 7.5 | 30 | 2.401 | -5.9 | -14.2 | 26 | 7.2 | 30 | 2.309 | -11.5 | -17.7 | 30 | 3.1 | 28 | 2.520 | 8.1 | -7.5 | 26 | 11.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 700 | 30 | 3.165 | 8.8 | -12.8 | 0.8 | 2.0 | 25 | 3.076 | 7 | -21.6 | 31 | 9.2 | 30 | 2.939 | -8.2 | -17.9 | 26 | 8.9 | 30 | 2.837 | -14.1 | -20.4 | 29 | 3.6 | 28 | 3.091 | 5.5 | -12.8 | 26 | 12.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 650 | 30 | 3.772 | 6.0 | -16.3 | 0.6 | 2.3 | 25 | 3.667 | -3.1 | -24.0 | 30 | 10.7 | 30 | 3.510 | -10.7 | -20.2 | 27 | 9.8 | 30 | 3.393 | -17.0 | -24.9 | 29 | 4.0 | 28 | 3.689 | 1.6 | -15.2 | 26 | 15.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 600 | 30 | 4.425 | 2.4 | -19.7 | 0.7 | 1.2 | 25 | 4.276 | -0.3 | -28.0 | 29 | 11.3 | 30 | 4.133 | -14.3 | -24.0 | 27 | 10.9 | 30 | 3.993 | -20.3 | -28.0 | 28 | 4.6 | 28 | 4.333 | -2.4 | -18.5 | 26 | 17.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 550 | 30 | 5.118 | -1.9 | -23.0 | 0.2 | 0.4 | 25 | 5.066 | -12.0 | -28.8 | 29 | 14.0 | 30 | 4.710 | -17.2 | -28.0 | 27 | 11.3 | 30 | 4.627 | -21.1 | -31.6 | 29 | 4.4 | 28 | 5.010 | -7.5 | -21.6 | 26 | 20.2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 500 | 30 | 5.874 | -0.5 | -27.1 | 0.3 | 1.7 | 25 | 5.691 | -16.8 | -32.5 | 28 | 14.1 | 30 | 5.455 | -22.7 | -32.7 | 27 | 14.1 | 30 | 5.322 | -28.5 | -35.8 | 28 | 5.7 | 25 | 5.753 | -1.2 | -20.0 | 26 | 23.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 450 | 30 | 6.683 | -11.6 | -31.6 | 0.3 | 3.4 | 25 | 6.473 | -22.2 | -36.5 | 28 | 15.8 | 30 | 6.244 | -27.7 | -38.1 | 28 | 14.9 | 30 | 6.063 | -33.3 | -40.0 | 27 | 7.1 | 28 | 6.545 | -18.5 | -31.5 | 26 | 26.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 400 | 30 | 7.581 | -18.0 | -37.1 | 0.1 | 5.2 | 25 | 7.329 | -28.4 | -42.1 | 28 | 17.6 | 30 | 7.080 | -34.1 | -42.9 | 28 | 17.2 | 30 | 6.888 | -39.2 | -42.3 | 27 | 7.9 | 28 | 7.417 | -24.6 | -37.3 | 26 | 30.6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 350 | 30 | 8.554 | -23.4 | -43.1 | 0.1 | 6.8 | 25 | 8.271 | -36.0 | -47.2 | 28 | 19.1 | 30 | 8.008 | -40.6 | -47.0 | 27 | 20.4 | 30 | 7.790 | -45.7 | | 27 | 6.0 | 28 | 8.376 | -31.3 | -43.8 | 26 | 37.2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 300 | 30 | 9.458 | -28.4 | -50.0 | 0.0 | 8.3 | 25 | 9.323 | -44.0 | -54.5 | 27 | 21.7 | 30 | 9.0 | -44.0 | -54.5 | 27 | 22.2 | 30 | 8.802 | -51.9 | | 26 | 7.9 | 28 | 9.449 | -39.3 | -46.9 | 26 | 41.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 250 | 30 | 10.913 | -33.6 | | | 13.7 | 25 | 10.271 | -51.6 | -62.9 | 27 | 23.4 | 30 | 10.271 | -51.6 | -62.9 | 27 | 23.4 | 30 | 10.271 | -51.6 | -62.9 | 27 | 9.1 | 28 | 12.113 | -57.0 | | 27 | 48.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 200 | 30 | 12.737 | -53.9 | | | 20.0 | 25 | 11.953 | -56.5 | -65.5 | 27 | 24.7 | 30 | 11.953 | -56.5 | -65.5 | 27 | 23.7 | 30 | 11.953 | -56.5 | -65.5 | 27 | 9.1 | 28 | 12.113 | -57.0 | | 27 | 48.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 175 | 30 | 13.222 | -59.8 | | | 21.6 | 25 | 12.798 | -57.9 | -65.5 | 27 | 26.0 | 30 | 12.522 | -53.3 | | 27 | 21.4 | 30 | 12.261 | -52.6 | | 27 | 8.3 | 27 | 12.951 | -60.4 | | 27 | 46.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 150 | 30 | 14.171 | -55.8 | | | 21.6 | 25 | 13.799 | -58.4 | -65.5 | 27 | 26.0 | 30 | 13.517 | -52.3 | | 27 | 19.5 | 29 | 13.263 | -51.8 | | 26 | 8.1 | 27 | 13.909 | -61.8 | | 26 | 40.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 125 | 30 | 15.265 | -70.4 | | | 21.6 | 25 | 14.910 | -60.3 | | 27 | 28.3 | 30 | 14.695 | -52.5 | | 27 | 17.6 | 28 | 14.650 | -51.4 | | 26 | 7.2 | 27 | 15.032 | -64.4 | | 26 | 32.9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 100 | 30 | 16.573 | -75.2 | | | 21.6 | 25 | 16.822 | -62.7 | | 27 | 31.3 | 30 | 16.135 | -53.7 | | 27 | 13.0 | 28 | 15.897 | -51.8 | | 26 | 6.2 | 26 | 16.387 | -67.1 | | 26 | 29.9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 75 | 30 | 17.857 | -76.0 | | | 21.6 | 25 | 17.666 | -62.9 | | 27 | 34.8 | 30 | 17.452 | -54.8 | | 27 | 9.6 | 28 | 17.345 | -51.5 | | 26 | 5.3 | 26 | 17.736 | -66.0 | | 26 | 24.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 50 | 30 | 18.632 | -73.5 | | | 34 | 2 | 18.489 | -62.2 | | 26 | 11.8 | 29 | 18.426 | -54.7 | | 28 | 8.5 | 28 | 18.210 | -51.4 | | 25 | 5.8 | 26 | 18.540 | -66.0 | | 27 | 11.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 25 | 30 | 19.543 | -68.8 | | | 5 | 3.4 | 19.447 | -60.3 | | 26 | 8.5 | 29 | 19.412 | -54.5 | | 29 | 7.4 | 27 | 19.209 | -50.9 | | 24 | 4.7 | 26 | 19.482 | -63.0 | | 26 | 4.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 30 | 20.655 | -62.1 | | | 0 | 4.6 | 20.588 | -58.4 | | 26 | 4.4 | 29 | 20.579 | -54.5 | | 29 | 6.9 | 27 | 20.396 | -50.2 | | 22 | 3.9 | 26 | 20.614 | -59.2 | | 31 | 1.6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 40 | 28 | 22.069 | -56.8 | | | 0 | 6.7 | 22.002 | -55.6 | | 26 | 1.6 | 28 | 22.001 | -54.5 | | 31 | 5.3 | 27 | 21.855 | -46.5 | | 20 | 3.1 | 26 | 22.023 | -55.7 | | 06 | 1.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 20 | 28 | 23.892 | -52.0 | | | 0 | 8.0 | 23.849 | -52.7 | | 0 | 1.8 | 28 | 23.841 | -54.6 | | 30 | 5.9 | 27 | 23.740 | -49.2 | | 16 | 2.1 | 24 | 23.889 | -52.5 | | 07 | 4.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | 23 | 25.075 | -50.4 | | | 0 | 10.3 | 25.075 | -50.4 | | 0 | 1.8 | 27 | 25.044 | -53.6 | | 31 | 5.9 | 26 | 25.044 | -53.6 | | 12 | 2.1 | 24 | 25.044 | -53.6 | | 07 | 4.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 20 | 14 | 26.534 | -48.2 | | | 0 | 13.3 | 26.489 | -48.7 | | 0 | 1.0 | 21 | 26.452 | -52.6 | | 28 | 7.5 | 26 | 26.400 | -46.6 | | 0 | 2.1 | 24 | 26.506 | -47.7 | | 06 | 4.6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 | 11 | 28.454 | -44.5 | | | 0 | 12.5 | 28.396 | -44.9 | | 27 | 3.5 | 26 | 28.320 | -50.1 | | 28 | 10.6 | 26 | 28.294 | -47.9 | | 10 | 3.3 | 17 | 28.417 | -42.8 | | 07 | 2.4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | 7 | | | | | 0 | 1.5 | 31.104 | -40.9 | | 27 | 8.5 | 23 | 30.997 | -44.1 | | 27 | 17.7 | 18 | 31.032 | -46.2 | | 11 | 6.3 | 12 | 31.144 | -37.6 | | 28 | 4.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | 5 | | | | | 0 | 13 | 33.534 | -37.4 | | 26 | 17.3 | 18 | 33.411 | -38.0 | | 27 | 23.7 | 7 | 33.633 | -41.7 | | 0 | 6 | 33.606 | -31.7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | 5 | | | | | 0 | 13 | 35.837 | -37.5 | | 26 | 17.3 | 18 | 35.739 | -38.0 | | 26 | 27.2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| SPOKANE, WASH.
931 MB | | | | * SHAN ISLAND, M. I.
1012 MB | | | | TAMPA, FLA.
1016 MB | | | | TOPEKA, KANS.
979 MB | | | | * TRUK, CAROLINE IS.
1011 MB | | | | | | | | | | | | | | | | |
|--------------------------|----|-------|-------|---------------------------------|----|------|-----|------------------------|-------|-------|-----|-------------------------|------|--------|-------|---------------------------------|-----|--------|-------|-------|-------|-------|------|------|------|-------|-------|-------|-----|------|-----|--|
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SURFACE | 30 | 720 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1000 | 30 | 134 | 1.5 | *3.9 | 19 | 3.1 | 30 | 118 | 25.2 | 23.0 | 12 | 4.6 | 30 | 8 | 18.9 | 17.2 | 11 | 1.4 | 30 | 268 | 7.7 | 3.2 | 18 | .9 | 30 | 99 | 27.8 | 23.3 | 06 | 5.3 | | |
| 950 | 30 | 552 | | | | 30 | 118 | 25.2 | 22.0 | 11 | 5.9 | 30 | 148 | 19.5 | 16.5 | 12 | 2.9 | 30 | 93 | | | | | 2.1 | 30 | 99 | 27.8 | 22.1 | 06 | 6.9 | | |
| 900 | 30 | 989 | -2.3 | *4.8 | 22 | 4.8 | 30 | 1037 | 19.1 | 13.4 | 12 | 6.2 | 30 | 1051 | 16.7 | 6.7 | 21 | 3.6 | 30 | 967 | 9.1 | -1.9 | 21 | 5.0 | 30 | 1024 | 21.0 | 13.8 | 08 | 10.2 | | |
| 850 | 30 | 1449 | -2.3 | *7.3 | 24 | 4.9 | 30 | 1526 | 16.6 | 7.6 | 11 | 7.6 | 30 | 1536 | 15.0 | -1.23 | 3.6 | 30 | 1440 | 8.0 | -3.9 | 24 | 6.8 | 30 | 1517 | 18.1 | 10.4 | 08 | 9.4 | | | |
| 800 | 30 | 1931 | -3.8 | *9.9 | 25 | 4.8 | 30 | 2040 | 14.0 | 1.7 | 11 | 6.8 | 30 | 2048 | 13.5 | -5.1 | 25 | 4.9 | 30 | 1938 | 5.5 | -7.2 | 27 | 8.0 | 30 | 2035 | 16.0 | 4.1 | 08 | 7.0 | | |
| 750 | 30 | 2436 | -7.7 | *12.7 | 26 | 5.2 | 30 | 2585 | 11.8 | *4.0 | 11 | 5.8 | 30 | 2586 | 11.0 | *8.1 | 26 | 6.7 | 30 | 2462 | 2.2 | -10.3 | 27 | 10.0 | 30 | 2581 | 13.7 | -1.3 | 09 | 4.9 | | |
| 700 | 30 | 2972 | -12.1 | *16.2 | 26 | 5.6 | 30 | 3159 | 10.0 | *9.8 | 10 | 6.0 | 30 | 3160 | 8.0 | -11.6 | 27 | 8.2 | 30 | 3017 | -1.2 | -13.9 | 27 | 12.8 | 30 | 3150 | 11.1 | -6.7 | 10 | 3.8 | | |
| 650 | 30 | 3530 | -15.3 | *20.1 | 27 | 5.9 | 30 | 3717 | -12.8 | 10 | 6.4 | 30 | 3747 | 4.4 | -14.2 | 27 | 9.5 | 30 | 3599 | -6.9 | -17.6 | 27 | 15.2 | 30 | 3773 | 7.8 | -8.3 | 10 | 4.1 | | | |
| 600 | 30 | 4135 | -18.8 | *25.9 | 24 | 7.3 | 30 | 4426 | -6 | -16.5 | 17 | 6.0 | 30 | 4445 | -3 | -17.5 | 28 | 11.8 | 30 | 4239 | -20.9 | 26 | 17.1 | 30 | 4431 | 4.2 | -12.0 | 09 | 4.9 | | | |
| 550 | 30 | 4776 | -22.7 | *30.6 | 27 | 8.3 | 30 | 5116 | -4.4 | -21.5 | 08 | 6.2 | 30 | 5103 | -4.0 | -21.6 | 28 | 13.9 | 30 | 4889 | -13.4 | -26.6 | 26 | 18.2 | 30 | 5128 | 3.3 | -16.3 | 08 | 5.7 | | |
| 500 | 30 | 5471 | -27.5 | *35.1 | 27 | 9.5 | 30 | 5885 | -4.8 | -24.5 | 08 | 5.5 | 30 | 5852 | -9.0 | -25.9 | 28 | 16.0 | 30 | 5616 | -18.1 | -31.8 | 26 | 19.4 | 30 | 5892 | -3.9 | -20.8 | 08 | 6.2 | | |
| 450 | 30 | 6215 | -32.6 | *40.1 | 27 | 10.4 | 30 | 6701 | -10.2 | -29.6 | 07 | 4.6 | 30 | 6654 | -14.4 | -31.0 | 28 | 18.8 | 30 | 6388 | -23.8 | -36.0 | 26 | 21.9 | 30 | 6710 | -8.4 | -26.6 | 09 | 6.3 | | |
| 400 | 30 | 7042 | -38.6 | *46.1 | 27 | 12.7 | 30 | 7603 | -18.6 | -35.2 | 05 | 3.7 | 30 | 7553 | -20.7 | -35.9 | 28 | 22.3 | 30 | 7245 | -30.6 | -61.1 | 26 | 24.0 | 30 | 7622 | -14.0 | -31.3 | 08 | 6.1 | | |
| 350 | 30 | 7966 | -46.2 | *55.2 | 27 | 15.2 | 30 | 8516 | -27.9 | -61.4 | 28 | 2.5 | 30 | 8516 | -27.9 | -61.4 | 28 | 24.8 | 30 | 8181 | -37.0 | -66.9 | 26 | 26.8 | 30 | 8622 | -20.7 | -37.4 | 09 | 4.6 | | |
| 300 | 30 | 8965 | -54.5 | | 27 | 15.2 | 30 | 9799 | -32.2 | -68.2 | 01 | 2.5 | 30 | 9799 | -32.2 | -68.2 | 01 | 24.8 | 30 | 9231 | -46.5 | -92.6 | 26 | 28.3 | 30 | 10000 | -34.4 | -64.3 | 09 | 4.6 | | |
| 250 | 30 | 10133 | -51.3 | | 26 | 16.3 | 30 | 10959 | -42.2 | -62 | 31 | 6.1 | 30 | 10846 | -45.4 | -65.4 | 29 | 30.7 | 30 | 10432 | -55.2 | -95.2 | 26 | 35.1 | 30 | 11021 | -39.4 | -53.4 | 16 | 4.5 | | |
| 200 | 30 | 11566 | -53.5 | | 28 | 15.1 | 30 | 12429 | -54.0 | -60 | 28 | 6.7 | 30 | 12299 | -56.0 | -60 | 28 | 32.4 | 30 | 11861 | -56.4 | -64 | 26 | 37.1 | 30 | 12508 | -51.9 | -57 | 7 | 5.6 | | |
| 175 | 30 | 12427 | -52.8 | | 28 | 12.1 | 30 | 13723 | -60.4 | -64 | 27 | 9.1 | 30 | 13139 | -60.8 | -64 | 28 | 32.5 | 30 | 12708 | -56.8 | -64 | 26 | 35.8 | 30 | 13259 | -55.0 | -59 | 0 | 16 | 4.7 | |
| 150 | 30 | 13424 | -52.3 | | 24 | 11.0 | 29 | 14218 | -66.9 | -68 | 28 | 9.2 | 30 | 14088 | -64.8 | -68 | 29 | 30.7 | 30 | 13685 | -56.6 | -64 | 26 | 34.3 | 30 | 14308 | -66.7 | -7 | 15 | 2.9 | | |
| 125 | 29 | 14604 | -53.0 | | 27 | 9.4 | 29 | 15304 | -72.2 | -72 | 28 | 9.2 | 30 | 15192 | -67.6 | -72 | 29 | 26.3 | 30 | 14841 | -57.2 | -64 | 26 | 28.3 | 30 | 15389 | -74.9 | -9 | 11 | 1.2 | | |
| 100 | 29 | 16060 | -53.0 | | 27 | 8.9 | 29 | 16008 | -74.9 | -74 | 29 | 8.2 | 30 | 16522 | -71.6 | -74 | 28 | 20.4 | 30 | 16245 | -55.5 | -64 | 27 | 21.3 | 30 | 16666 | -82.0 | -02 | 1 | 0.1 | | |
| 80 | 29 | 17474 | -53.9 | | 26 | 6.2 | 29 | 17878 | -78.1 | -74 | 04 | 2.6 | 30 | 17636 | -72.4 | -74 | 29 | 13.3 | 30 | 17664 | -60.8 | -64 | 27 | 4.7 | 30 | 17907 | -80.4 | -06 | 2 | 0.0 | | |
| 70 | 29 | 18332 | -53.9 | | 25 | 5.9 | 29 | 18665 | -75.4 | -74 | 07 | 3.9 | 30 | 18824 | -70.4 | -74 | 29 | 7.6 | 29 | 18678 | -72.6 | -60 | 26 | 11.2 | 30 | 18670 | -75.1 | -23 | 6 | 0.6 | | |
| 60 | 29 | 19323 | -53.5 | | 25 | 4.9 | 29 | 19568 | -70.1 | -70 | 09 | 4.1 | 30 | 19547 | -67.2 | -72 | 32 | 3.4 | 29 | 19438 | -58.6 | -64 | 27 | 8.0 | 30 | 19576 | -69.6 | -28 | 3 | 9.9 | | |
| 50 | 29 | 20330 | -53.5 | | 25 | 3.8 | 29 | 20654 | -67.2 | -67 | 08 | 4.0 | 30 | 20660 | -62.1 | -67 | 02 | 2.2 | 29 | 20588 | -57.1 | -64 | 26 | 4.8 | 30 | 20677 | -65.5 | -20 | 8 | 1.6 | | |
| 40 | 29 | 21930 | -53.8 | | 23 | 2.9 | 29 | 22005 | -57.2 | -57 | 06 | 4.8 | 30 | 22057 | -57.2 | -57 | 06 | 4.8 | 29 | 22205 | -55.6 | -64 | 28 | 4.0 | 29 | 22204 | -61.1 | -10 | 7 | 3.3 | | |
| 30 | 27 | 23777 | -54.1 | | 23 | 3.5 | 28 | 23893 | -52.1 | -52 | 08 | 5.8 | 30 | 23894 | -53.4 | -54 | 08 | 5.8 | 28 | 23893 | -53.3 | -54 | 30 | 4.0 | 28 | 23890 | -56.6 | -09 | 20 | 6.6 | | |
| 25 | 26 | 24945 | -54.1 | | 26 | 3.6 | 26 | 25052 | -50.5 | -50 | 09 | 12.8 | 30 | 25073 | -51.1 | -51 | 10 | 6.8 | 27 | 25013 | -50.8 | -51 | 28 | 5.1 | 27 | 25013 | -50.8 | -51 | 14 | 2.1 | | |
| 20 | 26 | 26357 | -54.6 | | 27 | 5.6 | 26 | 26568 | -67.3 | -73 | 09 | 15.6 | 26 | 26527 | -67.9 | -73 | 09 | 6.8 | 26 | 26474 | -61.0 | -64 | 28 | 6.3 | 23 | 26463 | -50.0 | -09 | 25 | 3.3 | | |
| 15 | 27 | 28210 | -53.6 | | 28 | 7.8 | 27 | 28405 | -64.0 | -64 | 09 | 17.5 | 23 | 28455 | -63.2 | -64 | 10 | 6.8 | 29 | 28341 | -58.2 | -64 | 27 | 10.3 | 11 | 28345 | -45.8 | -08 | 29 | 21.8 | | |
| 10 | 28 | 30834 | -50.8 | | 21 | 31.2 | 18 | 31.2 | -38.8 | -38 | 11 | 15.3 | 9 | 31.224 | -38.5 | -38 | 8 | 31.055 | -43.3 | -43 | | | | | | | | | | | | |
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See reference at end of table

RAWINSONDE DATA

Average monthly values

APRIL 1970

| TUCSON, ARIZ., 923 MB | | | | | | | | | | WHITE-BART, ARIZ., 1006 MB | | | | | | | | | | FORT WORTH, TEXAS, 1008 MB | | | | | | | | | | DALLAS, TEXAS, 1016 MB | | | | | | | | | |
|--------------------------------|----|--------------------|-------|----------------|----|-------------|----|-----------|-------|----------------------------|----|-------|----|--------------------|-------|----------------|----|-------------|----|----------------------------|-------|-----------|----|-------|-------|--------------------|-------|----------------|-----|------------------------|----|-----------|-----|-----------|-----|-------|--|--|--|
| Standard pressure surface (mb) | | No of observations | | Dynamic height | | Temperature | | Dew Point | | Direction | | Speed | | No of observations | | Dynamic height | | Temperature | | Dew Point | | Direction | | Speed | | No of observations | | Dynamic height | | Temperature | | Dew Point | | Direction | | Speed | | | |
| SURFACE | 30 | 189 | 9.3 | -6.6 | 19 | 2.2 | 29 | 100 | 7.3 | 5.1 | 34 | 2.6 | 30 | 33 | 18.0 | 16.4 | 17 | 2.3 | 30 | 5 | 26.1 | 22.1 | 08 | 6.3 | 30 | 4 | 8.7 | 5.7 | 02 | 1.3 | 30 | 133 | 9.4 | -2.1 | 1.8 | | | | |
| 1000 | 30 | 111 | | | | | 29 | 575 | 10.0 | -0.36 | | 7.8 | 30 | 537 | 17.2 | 12.2 | 17 | 7.2 | 30 | 591 | 20.4 | 18.3 | 08 | 8.6 | 30 | 582 | 10.3 | -6.32 | 2.6 | | | | | | | | | | |
| 950 | 30 | 543 | | | | | 29 | 1026 | 8.5 | -4.3 | 34 | 8.9 | 30 | 1001 | 16.6 | 4.5 | 18 | 8.8 | 30 | 1059 | 17.8 | 13.3 | 08 | 7.8 | 30 | 1009 | 8.2 | -2.4 | 29 | 4.4 | | | | | | | | | |
| 900 | 30 | 999 | 13.3 | -5.7 | 19 | 1.1 | 29 | 1496 | 6.1 | -8.8 | 34 | 7.9 | 30 | 1487 | 15.6 | 1.6 | 20 | 9.2 | 30 | 1547 | 15.1 | 8.8 | 08 | 7.9 | 30 | 1480 | 6.1 | -5.6 | 29 | 6.1 | | | | | | | | | |
| 850 | 30 | 1478 | 10.7 | -7.6 | 25 | 2.4 | 29 | 1991 | 3.5 | -13.0 | 34 | 7.4 | 30 | 2000 | 13.8 | -3.6 | 21 | 8.9 | 30 | 2059 | 12.8 | 3.5 | 08 | 7.1 | 30 | 1975 | 4.0 | -7.9 | 28 | 8.6 | | | | | | | | | |
| 800 | 30 | 2508 | 3.5 | -13.2 | 24 | 6.1 | 29 | 2518 | -7 | -16.9 | 33 | 8.1 | 30 | 2540 | 12.0 | -8.8 | 23 | 8.9 | 30 | 2598 | 10.4 | -2.1 | 08 | 6.3 | 30 | 2507 | -1.3 | -6.9 | 28 | 4.6 | | | | | | | | | |
| 750 | 30 | 3093 | -1.3 | -17.6 | 24 | 8.5 | 29 | 3092 | -2.4 | -19.1 | 32 | 8.7 | 30 | 3116 | -2.1 | -11.8 | 24 | 9.0 | 30 | 3171 | -7.9 | -7.9 | 07 | 5.6 | 30 | 3050 | -1.9 | -12.3 | 28 | 1.8 | | | | | | | | | |
| 700 | 30 | 3650 | -6.0 | -21.8 | 24 | 11.2 | 29 | 3641 | -6.1 | -22.1 | 31 | 10.7 | 30 | 3721 | 4.7 | -14.0 | 25 | 11.3 | 30 | 3774 | 5.2 | -13.2 | 07 | 4.9 | 30 | 3632 | -5.1 | -17.2 | 28 | 13.9 | | | | | | | | | |
| 650 | 30 | 4279 | -7.8 | -25.3 | 25 | 13.2 | 29 | 4298 | -10.0 | -27.0 | 31 | 12.3 | 30 | 4372 | -6.0 | -17.0 | 25 | 14.2 | 30 | 4429 | 2.3 | -18.0 | 04 | 4.0 | 30 | 4261 | -8.5 | -20.9 | 28 | 16.1 | | | | | | | | | |
| 600 | 30 | 4904 | -12.5 | -28.7 | 25 | 16.0 | 29 | 4928 | -14.2 | -30.1 | 30 | 13.5 | 30 | 5009 | -5.3 | -20.2 | 24 | 17.4 | 30 | 5124 | -1.6 | -22.1 | 08 | 3.2 | 30 | 4926 | -12.5 | -25.6 | 28 | 18.6 | | | | | | | | | |
| 550 | 30 | 5571 | -17.7 | -32.6 | 25 | 18.9 | 29 | 5650 | -18.9 | -33.9 | 30 | 16.0 | 30 | 5693 | -10.8 | -24.0 | 24 | 20.0 | 30 | 5880 | -5.9 | -26.0 | 34 | 3.8 | 30 | 5582 | -17.2 | -30.1 | 28 | 21.9 | | | | | | | | | |
| 500 | 30 | 6245 | -21.9 | -36.8 | 28 | 21.6 | 29 | 6349 | -24.2 | -37.8 | 28 | 17.4 | 30 | 6402 | -15.9 | -29.3 | 24 | 23.1 | 30 | 6681 | -11.2 | -30.5 | 33 | 5.2 | 30 | 6428 | -22.7 | -35.0 | 28 | 24.8 | | | | | | | | | |
| 450 | 30 | 7036 | -28.6 | -41.7 | 25 | 26.7 | 29 | 7276 | -30.3 | -42.2 | 29 | 19.4 | 30 | 7448 | -21.8 | -34.4 | 24 | 26.8 | 30 | 7592 | -17.4 | -35.7 | 32 | 7.2 | 30 | 7289 | -28.6 | -39.4 | 28 | 26.9 | | | | | | | | | |
| 400 | 30 | 8249 | -35.1 | -47.0 | 25 | 31.4 | 29 | 8412 | -37.1 | -47.2 | 29 | 22.6 | 30 | 8454 | -28.5 | -40.3 | 24 | 31.6 | 30 | 8577 | -25.0 | -41.5 | 31 | 10.3 | 30 | 8233 | -35.0 | -46.3 | 28 | 29.2 | | | | | | | | | |
| 350 | 30 | 9307 | -42.5 | -51.3 | 25 | 37.6 | 29 | 9261 | -44.2 | | 29 | 23.2 | 30 | 9541 | -36.6 | -47.0 | 25 | 35.0 | 30 | 9678 | -33.4 | -48.1 | 30 | 13.4 | 30 | 9292 | -42.6 | -50.5 | 28 | 32.6 | | | | | | | | | |
| 300 | 30 | 10517 | -50.5 | | 25 | 44.4 | 29 | 10461 | -52.1 | | 28 | 26.0 | 30 | 10780 | -40.3 | | 24 | 38.7 | 30 | 10933 | -33.0 | | 29 | 17.8 | 30 | 10502 | -50.2 | | 28 | 36.2 | | | | | | | | | |
| 250 | 30 | 11948 | -56.6 | | 25 | 43.5 | 29 | 11887 | -57.1 | | 28 | 25.8 | 30 | 12227 | -57.1 | | 24 | 43.1 | 30 | 12401 | -53.8 | | 29 | 24.2 | 30 | 11940 | -56.5 | | 28 | 37.6 | | | | | | | | | |
| 200 | 30 | 12782 | -57.8 | | 26 | 40.7 | 29 | 12730 | -57.9 | | 27 | 27.3 | 30 | 13062 | -61.8 | | 24 | 42.6 | 30 | 13248 | -56.6 | | 29 | 24.2 | 30 | 12785 | -57.8 | | 28 | 35.0 | | | | | | | | | |
| 175 | 30 | 13971 | -58.7 | | 26 | 36.3 | 29 | 13701 | -58.3 | | 28 | 26.8 | 30 | 14008 | -65.2 | | 24 | 38.3 | 30 | 14197 | -66.0 | | 29 | 24.2 | 30 | 13757 | -57.9 | | 28 | 31.0 | | | | | | | | | |
| 150 | 30 | 14901 | -61.0 | | 25 | 30.4 | 29 | 14845 | -59.4 | | 27 | 23.0 | 30 | 15115 | -67.5 | | 24 | 32.6 | 30 | 15286 | -72.2 | | 29 | 19.9 | 30 | 14904 | -58.6 | | 28 | 26.2 | | | | | | | | | |
| 125 | 30 | 16278 | -63.6 | | 25 | 24.1 | 29 | 16236 | -61.4 | | 27 | 17.6 | 30 | 16447 | -71.2 | | 24 | 24.8 | 30 | 16579 | -77.9 | | 29 | 13.6 | 30 | 16300 | -60.6 | | 28 | 20.7 | | | | | | | | | |
| 100 | 30 | 17638 | -64.7 | | 25 | 19.3 | 29 | 17621 | -61.8 | | 27 | 13.1 | 30 | 17764 | -71.5 | | 24 | 15.0 | 30 | 17847 | -78.0 | | 29 | 7.6 | 30 | 17684 | -61.2 | | 28 | 15.7 | | | | | | | | | |
| 80 | 30 | 18598 | -63.7 | | 26 | 16.0 | 29 | 18572 | -61.0 | | 26 | 11.6 | 30 | 18755 | -70.2 | | 24 | 10.2 | 30 | 18916 | -74.9 | | 31 | 2.9 | 30 | 18636 | -59.7 | | 29 | 12.8 | | | | | | | | | |
| 60 | 30 | 19400 | -61.6 | | 25 | 7.1 | 29 | 19412 | -59.1 | | 27 | 9.1 | 30 | 19678 | -66.2 | | 24 | 5.5 | 30 | 19924 | -69.5 | | 08 | 5.8 | 30 | 19748 | -58.6 | | 29 | 8.7 | | | | | | | | | |
| 50 | 30 | 20539 | -59.8 | | 26 | 4.3 | 29 | 20560 | -57.5 | | 25 | 4.3 | 30 | 20737 | -61.3 | | 19 | 1.5 | 30 | 20928 | -63.6 | | 09 | 3.9 | 30 | 20633 | -57.1 | | 30 | 6.0 | | | | | | | | | |
| 40 | 30 | 21943 | -56.5 | | 14 | 6 | 28 | 21975 | -55.4 | | 24 | 4.0 | 30 | 22199 | -57.1 | | 3 | 3.2 | 30 | 22401 | -59.3 | | 09 | 5.7 | 30 | 22052 | -54.8 | | 31 | 4.1 | | | | | | | | | |
| 30 | 30 | 23782 | -53.3 | | 09 | 3.1 | 28 | 23821 | -53.0 | | 26 | 1.4 | 30 | 23831 | -53.4 | | 08 | 5.2 | 30 | 23938 | -54.2 | | 08 | 8.0 | 30 | 23899 | -52.6 | | 30 | 3.4 | | | | | | | | | |
| 25 | 30 | 24960 | -51.5 | | 09 | 3.7 | 26 | 25000 | -51.8 | | 26 | 1.7 | 30 | 25010 | -51.2 | | 08 | 5.3 | 30 | 25111 | -52.0 | | 08 | 9.6 | 30 | 25031 | -50.9 | | 29 | 4.1 | | | | | | | | | |
| 20 | 30 | 26409 | -46.5 | | 05 | 1.1 | 28 | 26452 | -46.7 | | 27 | 0.8 | 30 | 26464 | -46.5 | | 05 | 5.7 | 30 | 26564 | -46.3 | | 08 | 12.6 | 30 | 26440 | -46.7 | | 29 | 5.8 | | | | | | | | | |
| 15 | 30 | 28306 | -46.1 | | 05 | 1.1 | 23 | 28346 | -46.7 | | 28 | 2.0 | 30 | 28397 | -43.9 | | 07 | 4.2 | 30 | 28467 | -45.4 | | 08 | 14.3 | 30 | 28450 | -45.2 | | 26 | 7.2 | | | | | | | | | |
| 10 | 30 | 31033 | -40.7 | | 34 | 2.4 | 17 | 31089 | -40.8 | | 27 | 7.9 | 30 | 31137 | -38.5 | | 09 | 31.0 | 30 | 31085 | -40.9 | | | | 18 | 31186 | -39.4 | | 26 | 15.4 | | | | | | | | | |
| 5 | 30 | 35741 | -34.9 | | 26 | 12.0 | 8 | 35593 | -36.7 | | | | | | | | | | | | | | | 9 | 33659 | -35.0 | | | | | | | | | | | | | |

| WASHINGTON DULLES INT. AP 1007 MB | | | | | | | | | | WAYCROSS, GA. 1011 MB | | | | | | | | | | WINNEMUCCA, NEV. 868 MB | | | | | | | | | | WISLON, ARIZ. 849 MB | | | | | | | | | | YAKUTAT, ALASKA 1007 MB | | | | | | | | | |
|-----------------------------------|----|--------------------|-------|----------------|----|-------------|----|-----------|-------|-----------------------|----|-------|----|--------------------|-------|----------------|----|-------------|------|-------------------------|-------|-----------|----|-------|------|--------------------|-------|----------------|-----|----------------------|--|-----------|--|-----------|--|-------|--|--|--|-------------------------|--|--|--|--|--|--|--|--|--|
| Standard pressure surface (mb) | | No of observations | | Dynamic height | | Temperature | | Dew Point | | Direction | | Speed | | No of observations | | Dynamic height | | Temperature | | Dew Point | | Direction | | Speed | | No of observations | | Dynamic height | | Temperature | | Dew Point | | Direction | | Speed | | | | | | | | | | | | | |
| SURFACE | 30 | 85 | 6.2 | 2.8 | 01 | 5 | 30 | 44 | 15.4 | 14.3 | 25 | 1.8 | 30 | 1312 | -3.1 | -10.4 | 33 | 5 | 30 | 1487 | 2.0 | -6.4 | 22 | 1.9 | 30 | 12 | -2 | -8 | 10 | 2.0 | | | | | | | | | | | | | | | | | | | |
| 1000 | 30 | 139 | | | | 5 | 30 | 140 | 17.0 | 13.0 | 25 | 1.5 | 30 | 172 | | | | 5 | 30 | 2038 | | | | 1.9 | 30 | 70 | | | | | | | | | | | | | | | | | | | | | | | |
| 950 | 30 | 566 | 6.0 | -2.9 | 29 | 2.2 | 30 | 575 | 12.7 | 8.7 | 26 | 2.8 | 30 | 585 | | | | 5 | 30 | 657 | | | | 30 | 461 | 0 | -3.1 | 1 | 2.4 | | | | | | | | | | | | | | | | | | | | |
| 900 | 30 | 1007 | 6.9 | -3.0 | 28 | 3.2 | 3 | 1039 | 14.6 | 6.7 | 26 | 5.3 | 30 | 1024 | | | | 30 | 1007 | | | | 30 | 913 | -2.9 | -5.7 | 14 | 4.2 | | | | | | | | | | | | | | | | | | | | | |
| 850 | 30 | 1476 | 4.6 | -3.9 | 27 | 6.4 | 30 | 1520 | 12.2 | 3.0 | 26 | 6.2 | 30 | 1481 | 2.0 | -7.1 | 33 | 8.1 | 30 | 1474 | | | 16 | 7 | 1363 | -5.9 | -8.7 | 17 | 4.5 | | | | | | | | | | | | | | | | | | | | |
| 800 | 30 | 1968 | 2.7 | -6.4 | 28 | 10.1 | 30 | 2027 | 10.0 | -7.3 | 26 | 7.1 | 30 | 1968 | -6 | -9.4 | 30 | 2.9 | 30 | 1968 | 5.1 | -9.3 | 25 | 4.6 | 30 | 1836 | -8.8 | -12.7 | 17 | 4.6 | | | | | | | | | | | | | | | | | | | |
| 750 | 30 | 2488 | -2 | -9.7 | 28 | 11.5 | 30 | 2528 | 8.1 | -7.3 | 27 | 8.8 | 30 | 2477 | -4.4 | -11.5 | 30 | 4.4 | 30 | 2490 | -1.7 | -12.8 | 26 | 4.9 | 30 | 2339 | -12.1 | -17.3 | 14 | 4.6 | | | | | | | | | | | | | | | | | | | |
| 700 | 30 | 3060 | -7.1 | -13.5 | 28 | 13.6 | 30 | 3129 | 5.4 | -11.0 | 27 | 15.3 | 30 | 3021 | -8.2 | -15.7 | 29 | 6.0 | 30 | 3044 | -2.3 | -16.4 | 26 | 4.9 | 30 | 2887 | -14.6 | -21.1 | 29 | 4.6 | | | | | | | | | | | | | | | | | | | |
| 650 | 30 | 3625 | -9.9 | -17.2 | 28 | 14.7 | 30 | 3726 | -12.1 | -14.1 | 27 | 17.3 | 30 | 3587 | -11.1 | -20.0 | 29 | 7.3 | 30 | 3625 | -6.2 | -20.2 | 25 | 8.3 | 30 | 3412 | -19.3 | -24.9 | 21 | 5.1 | | | | | | | | | | | | | | | | | | | |
| 600 | 30 | 4249 | -9.3 | -20.9 | 28 | 17.2 | 30 | 4373 | -2.0 | -16.9 | 27 | 18.8 | 30 | 4202 | -15.6 | -24.5 | 28 | 9.1 | 30 | 4250 | -10.3 | -25.0 | 26 | 10.8 | 30 | 4003 | -23.2 | -28.9 | 22 | 6.1 | | | | | | | | | | | | | | | | | | | |
| 550 | 30 | 4914 | -13.5 | -26.1 | 28 | 18.4 | 30 | 5049 | -6.6 | -20.6 | 27 | 18.2 | 30 | 4848 | -19.7 | -29.7 | 27 | 10.4 | 30 | 4910 | -14.1 | -28.1 | 26 | 13.1 | 30 | 4634 | -26.7 | -33.6 | 27 | 6.0 | | | | | | | | | | | | | | | | | | | |
| 500 | 30 | 5636 | -18.0 | -30.2 | 28 | 21.0 | 30 | 5797 | -11.4 | -24.5 | 27 | 21.8 | 30 | 5594 | -24.6 | -34.0 | 28 | 11.5 | 30 | 5632 | -19.0 | -31.9 | 26 | 16.6 | 30 | 5318 | -31.2 | -37.9 | 23 | 8.0 | | | | | | | | | | | | | | | | | | | |
| 450 | 30 | 6411 | -23.3 | -35.3 | 28 | 23.1 | 30 | 6589 | -16.9 | -29.2 | 27 | 24.8 | 30 | 6305 | -30.0 | -39.1 | 28 | 12.4 | 30 | 6403 | -24.5 | -36.1 | 26 | 18.6 | 30 | 6053 | -36.6 | -46.5 | 23 | 9.4 | | | | | | | | | | | | | | | | | | | |
| 400 | 30 | 7268 | -29.5 | -41.0 | 28 | 25.8 | 30 | 7472 | -23.1 | -34.9 | 28 | 26.9 | 30 | 7143 | -35.9 | -43.4 | 29 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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SOLAR RADIATION INTENSITIES

Tabulated in langleys per minute on a surface normal to the direction of the sun.

APRIL 1970

| TUCSON, ARIZ. | | | | | | | | | | ALBUQUERQUE, N. MEX. | | | | | | | | | | |
|----------------------------------|-------|-------|-------|------|-------|-------|-------|-------|------|--------------------------------|--------|--------|--------|--------|--------|--------|---------|--------|--------|-------|
| Sun's zenith distance | | | | | | | | | | Sun's zenith distance | | | | | | | | | | |
| A. M. | | | | | P. M. | | | | | A. M. | | | | | P. M. | | | | | |
| 78.7° | 75.7° | 70.7° | 60.0° | * | 60.0° | 70.7° | 75.7° | 78.7° | | 78.7° | 75.7° | 70.7° | 60.0° | * | 60.0° | 70.7° | 75.7° | 78.7° | | |
| Air mass | | | | | | | | | | Air mass | | | | | | | | | | |
| 1 | 3.65 | 2.74 | 1.83 | * | 1.83 | 2.74 | 3.65 | 4.56 | | 4.19 | 3.35 | 2.51 | 1.67 | * | 1.67 | 2.51 | 3.35 | 4.19 | | |
| April 1----- | 0.78 | 0.87 | 1.01 | 1.17 | 1.44 | 1.27 | 1.10 | 0.98 | 0.88 | April 1----- | 0.94 | 1.04 | 1.16 | 1.32 | 1.50 | 1.32 | #---- | #---- | #---- | |
| 2----- | .90 | 1.00 | 1.15 | 1.25 | 1.47 | 1.26 | 1.11 | .97 | .88 | 2----- | 1.00 | 1.09 | 1.20 | 1.33 | 1.48 | #---- | #---- | #---- | #---- | |
| 3----- | .88 | --- | 1.10 | 1.23 | 1.42 | 1.23 | 1.07 | .93 | .82 | 4----- | .95 | 1.05 | 1.17 | 1.33 | 1.48 | 1.29 | (1.08) | --- | (0.80) | |
| 4----- | .87 | .97 | 1.10 | 1.25 | 1.46 | 1.21 | 1.07 | .93 | .83 | 5----- | 1.00 | 1.11 | 1.22 | 1.37 | 1.51 | #---- | #---- | #---- | #---- | |
| 5----- | .81 | .92 | 1.04 | 1.22 | 1.42 | 1.20 | 1.05 | .92 | .82 | 6----- | .96 | 1.08 | 1.18 | 1.33 | 1.50 | #---- | #---- | #---- | #---- | |
| 6----- | .85 | .94 | 1.07 | 1.21 | 1.38 | 1.17 | .99 | --- | --- | 7----- | --- | --- | --- | (1.24) | --- | #---- | #---- | #---- | #---- | |
| 7----- | .86 | .94 | 1.08 | 1.23 | 1.40 | 1.21 | 1.02 | .91 | .81 | 8----- | .87 | .99 | 1.11 | 1.26 | 1.47 | 1.29 | 1.13 | 1.00 | .89 | |
| 8----- | .86 | .96 | 1.08 | 1.25 | 1.44 | 1.22 | 1.05 | .92 | .81 | 10----- | .67 | .82 | .95 | 1.14 | --- | --- | --- | --- | --- | |
| 9----- | --- | --- | --- | --- | --- | 1.17 | .99 | .86 | .75 | 11----- | --- | --- | --- | --- | --- | D(.78) | D(.68) | D(.59) | --- | |
| 10----- | .72 | .84 | .96 | 1.15 | 1.34 | --- | --- | --- | --- | 12----- | .78 | .89 | 1.01 | 1.14 | 1.33 | 1.28 | 1.10 | .99 | .87 | |
| 11----- | .80 | .88 | 1.00 | 1.18 | 1.38 | 1.20 | .98 | .85 | .73 | 13----- | --- | --- | 1.09 | 1.25 | 1.43 | --- | --- | --- | --- | |
| 12----- | .74 | .86 | --- | 1.13 | 1.38 | 1.14 | .93 | .80 | .69 | 14----- | .88 | .99 | --- | --- | --- | --- | --- | --- | --- | |
| 13----- | .82 | .91 | 1.04 | 1.19 | --- | --- | --- | --- | --- | 15----- | .72 | .81 | .94 | 1.08 | 1.42 | 1.16 | .90 | .75 | .63 | |
| 14----- | .75 | --- | --- | --- | --- | .95 | .73 | .56 | .48 | 16----- | --- | --- | --- | --- | 1.46 | #---- | #---- | #---- | #---- | |
| 15----- | .56 | .68 | .84 | 1.02 | 1.29 | --- | .90 | .73 | .60 | 17----- | .92 | 1.05 | 1.16 | 1.33 | --- | --- | --- | --- | --- | |
| 16----- | .69 | .79 | .86 | 1.03 | 1.30 | 1.10 | --- | --- | --- | 19----- | .78 | .91 | 1.06 | 1.24 | --- | (1.19) | D(1.05) | D(.99) | .71 | |
| 19----- | .68 | .78 | .91 | 1.09 | 1.29 | 1.16 | --- | --- | --- | 20----- | .78 | .91 | 1.09 | 1.28 | --- | --- | --- | --- | --- | |
| 20----- | --- | --- | --- | 1.35 | 1.15 | .99 | .87 | .75 | .75 | 22----- | .83 | .93 | 1.08 | 1.22 | 1.48 | #---- | #---- | #---- | #---- | |
| 21----- | .82 | --- | --- | 1.16 | 1.35 | 1.18 | .99 | .87 | .75 | 23----- | .92 | 1.02 | 1.15 | 1.29 | 1.49 | 1.28 | 1.10 | .97 | .84 | |
| 22----- | .69 | .82 | .95 | 1.14 | 1.39 | 1.20 | 1.03 | .90 | .79 | 24----- | .95 | 1.05 | 1.17 | 1.33 | 1.50 | 1.25 | 1.05 | .87 | .74 | |
| 23----- | .78 | .89 | 1.02 | 1.24 | 1.41 | 1.19 | 1.02 | .89 | .78 | 25----- | .92 | 1.01 | 1.13 | 1.26 | 1.47 | 1.27 | 1.08 | .94 | .84 | |
| 24----- | .85 | .97 | 1.15 | 1.39 | 1.98 | .85 | .70 | --- | --- | 26----- | .80 | .88 | 1.04 | 1.19 | 1.43 | 1.24 | 1.06 | .91 | .81 | |
| 25----- | .75 | .87 | .99 | 1.18 | 1.34 | 1.20 | 1.02 | .88 | .75 | 27----- | .79 | .88 | 1.03 | 1.23 | 1.42 | 1.10 | 1.05 | .90 | .82 | |
| 26----- | .68 | .79 | .94 | 1.12 | 1.34 | 1.20 | 1.01 | .86 | .74 | 28----- | .77 | .88 | 1.02 | 1.20 | 1.41 | #---- | #---- | #---- | #---- | |
| 27----- | .71 | .84 | .99 | 1.17 | 1.38 | 1.24 | 1.04 | .90 | .75 | 29----- | .89 | .97 | 1.13 | 1.28 | --- | --- | --- | --- | --- | |
| 28----- | --- | --- | --- | --- | --- | 1.16 | 1.00 | .89 | .80 | 30----- | .92 | 1.01 | --- | 1.30 | --- | --- | --- | --- | --- | |
| 29----- | .78 | .89 | 1.01 | 1.15 | 1.40 | 1.17 | 1.02 | .90 | .81 | Aver- | ages | 0.87 | 0.97 | 1.10 | 1.26 | 1.46 | 1.25 | 1.06 | 0.92 | 0.79 |
| 30----- | .80 | .89 | 1.00 | 1.18 | 1.38 | 1.13 | .94 | .83 | .71 | MADISON, WIS. | | | | | | | | | | |
| Air mass | | | | | | | | | | Air mass | | | | | | | | | | |
| 4.78 | 3.82 | 2.87 | 1.91 | * | 1.91 | 2.87 | 3.82 | 4.78 | | 4.69 | 3.75 | 2.81 | 1.88 | * | 1.88 | 2.81 | 3.75 | 4.69 | | |
| April 7----- | --- | --- | --- | --- | --- | --- | --- | --- | --- | April 7----- | S 0.62 | S 0.73 | --- | --- | M 1.25 | M 1.05 | M 0.88 | M 0.78 | M 0.63 | |
| 9----- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 9----- | S .77 | S .88 | S 1.00 | --- | S 1.13 | S 1.26 | S 1.11 | S .93 | S .84 | S .72 |
| 10----- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 10----- | S .77 | S .86 | S .98 | --- | S 1.30 | --- | --- | --- | --- | |
| 14----- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 14----- | --- | --- | --- | --- | M 1.15 | M 1.08 | M .72 | M .58 | --- | |
| 16----- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 16----- | --- | --- | --- | --- | --- | S 1.01 | S .79 | S .60 | S .47 | |
| 23----- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 23----- | --- | S .85 | S .99 | S 1.33 | --- | --- | --- | --- | --- | |
| 24----- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 24----- | --- | --- | S .98 | S 1.13 | S 1.33 | --- | --- | --- | --- | |
| 25----- | M .53 | M .62 | --- | --- | --- | --- | --- | --- | --- | 25----- | M .53 | M .62 | --- | M .93 | --- | --- | --- | --- | --- | |
| 26----- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 26----- | --- | --- | --- | --- | --- | --- | M .48 | M .36 | --- | |
| Aver- | 0.52 | 0.69 | 0.84 | 1.07 | 1.29 | 1.03 | 0.83 | 0.67 | 0.55 | Aver- | ages | 0.67 | 0.79 | 0.99 | 1.13 | 1.26 | 1.06 | 0.83 | 0.66 | 0.55 |
| Legend | | | | | | | | | | Legend | | | | | | | | | | |
| BD Blowing dust (BD) | | | | | | | | | | blowing dust (BD) | | | | | | | | | | |
| H Haze | | | | | | | | | | Haze | | | | | | | | | | |
| M Moderate | | | | | | | | | | Moderate | | | | | | | | | | |
| S Slight | | | | | | | | | | Slight | | | | | | | | | | |
| HM Moderate Haze | | | | | | | | | | Moderate Haze | | | | | | | | | | |
| H Strong Haze | | | | | | | | | | Strong Haze | | | | | | | | | | |
| * Not tracking properly off sun, | | | | | | | | | | Not tracking properly off sun, | | | | | | | | | | |
| new drive motor ordered | | | | | | | | | | new drive motor ordered | | | | | | | | | | |
| Clouds present | | | | | | | | | | Clouds present | | | | | | | | | | |

Langley is the unit used to denote one gram calorie per square centimeter. An explanation of the formula used in computing the air mass values for each station listed above appears

in the February 1957 issue, Vol. 8, No. 2, page 63, of this publication

SOLAR RADIATION TOTALS

Daily totals and monthly averages of solar radiation (direct and diffuse) received on a horizontal surface, tabulated in langley's.

APRIL 1970

| Station | Day of month | | | | | | | | | | | | 31 | | | | | | | | | | | | | | | | | | | |
|----------------------|--------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | |
| ALBUQUERQUE N.M. | 715 | 504 | 504 | 712 | 721 | 714 | 630 | 713 | 579 | 685 | 384 | 735 | 602 | 624 | 762 | 719 | 568 | 427 | 710 | 583 | 677 | 777 | 789 | 784 | 783 | 783 | 793 | 789 | 611 | 592 | 672 | |
| ANNETTE ALASKA | 88 | 403 | 275 | 521 | 281 | 505 | 508 | 491 | 512 | 442 | 372 | 131 | 552 | 345 | 715 | 537 | 553 | 45 | 41 | 256 | 550 | 418 | 519 | 545 | 545 | 516 | 521 | 540 | 321 | 125 | 369 | |
| BARROW ALASKA | 362 | 249 | 204 | 226 | 140 | 248 | 62 | 193 | 183 | 212 | 444 | 508 | 465 | 475 | 526 | 526 | 526 | 220 | 482 | 581 | 141 | 260 | 134 | 309 | 392 | 478 | 561 | 100 | 337 | 468 | 202 | |
| BISMARCK N.DAK. | 488 | 415 | 431 | 87 | 130 | 598 | 629 | 655 | 624 | 520 | 328 | 570 | 623 | 577 | 634 | 612 | 608 | 424 | 581 | 462 | 589 | 482 | 569 | 643 | 558 | 461 | 471 | 548 | 579 | 615 | 523 | |
| BOISE IDAHO | 62 | 560 | 515 | 538 | 529 | 152 | 576 | 404 | 601 | 599 | 257 | 380 | 139 | 487 | 514 | 480 | 599 | 221 | 43 | 378 | 287 | 322 | 522 | 618 | 574 | 448 | 308 | 314 | 362 | 164 | 598 | |
| BROOKINGS SOUTH DAK. | 233 | 503 | 503 | 175 | 200 | 266 | 340 | 183 | 114 | 433 | 469 | 508 | 539 | 606 | 457 | 605 | 416 | 72 | 360 | 508 | --- | 409 | 246 | 371 | 426 | 418 | --- | 278 | 172 | 279 | 357 | |
| BURLINGTON VERMONT | 203 | 582 | 645 | 603 | 490 | 632 | 667 | 632 | 516 | 291 | 246 | 247 | 539 | 626 | 637 | 236 | 91 | 44 | 306 | 569 | 669 | 477 | 541 | 168 | 208 | 181 | 236 | 543 | 356 | 506 | 357 | |
| CAPE HATTERAS N.C. | 238 | 262 | 275 | 248 | 250 | 337 | 349 | 341 | 379 | 309 | 291 | 372 | 412 | 296 | 304 | 356 | 280 | 293 | 397 | 336 | 258 | 278 | 341 | 514 | 488 | 483 | 473 | 438 | 373 | 426 | 448 | |
| CARIBOU MAINE | 343 | 422 | 475 | 471 | 452 | 452 | 474 | 422 | 418 | 213 | 288 | 475 | 396 | 148 | 225 | 345 | 363 | 159 | 160 | 330 | 317 | 243 | 399 | 591 | 524 | 234 | 215 | 399 | 353 | 351 | 352 | |
| CHARLESTON S.C. | 602 | 308 | 480 | 544 | 610 | 565 | 569 | 627 | 608 | 497 | 222 | 166 | 328 | 423 | 133 | 386 | 659 | 120 | 459 | 408 | 459 | 554 | 645 | 702 | 671 | 570 | 104 | 27 | 410 | 258 | 437 | |
| CLEVELAND OHIO | 522 | 3 | 411 | 535 | 532 | 466 | 268 | 421 | 331 | 525 | 580 | 466 | 335 | --- | 584 | 596 | 374 | 446 | 630 | 120 | 102 | 346 | 255 | 37 | 501 | 515 | 604 | 576 | 564 | 555 | 421 | |
| COLUMBIA MISSOURI | 502 | 440 | 549 | 548 | 556 | 439 | 581 | 520 | 344 | 165 | 495 | 548 | 307 | --- | 415 | 587 | 650 | 583 | 251 | 504 | 652 | 576 | 331 | 191 | 523 | 279 | 491 | 535 | 631 | 634 | 483 | |
| DAVIS CALIFORNIA | 545 | 505 | 533 | 477 | 462 | 506 | 532 | 527 | 385 | 416 | 41 | 151 | 294 | 110 | 484 | 257 | 62 | 68 | 100 | 320 | 504 | 625 | 128 | 630 | 616 | --- | 565 | 567 | 665 | 450 | 370 | 364 |
| DODGE CITY KANSAS | 511 | 563 | 657 | 478 | 595 | 502 | 595 | 516 | 169 | 96 | 418 | 702 | 389 | 375 | 583 | 619 | 603 | 609 | 747 | 726 | 631 | 558 | 571 | 530 | 514 | 511 | 562 | 584 | 653 | 594 | 539 | |
| E. LANSING MICHIGAN | 483 | 67 | 291 | 316 | 545 | 501 | 399 | 333 | 305 | 178 | 471 | 493 | 414 | 554 | 565 | 522 | 482 | 145 | 590 | 408 | 459 | 554 | 645 | 702 | 671 | 570 | 104 | 27 | 410 | 258 | 374 | |
| EL CENTRO CALIF. NPF | 459 | 224 | 647 | 503 | 507 | 476 | 308 | 634 | 588 | 527 | 637 | 459 | 533 | 494 | 171 | 478 | 487 | 606 | 293 | 443 | 606 | 549 | 249 | 453 | 569 | 275 | 210 | 464 | 540 | 653 | 468 | |
| EL PASO TEXAS | 508 | 149 | 271 | 516 | 594 | 501 | 374 | 546 | 254 | 418 | 392 | 360 | 635 | 639 | 629 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 456 |
| EMPLEY NEWPORT R.I. | 84 | 306 | 664 | 584 | 161 | 338 | 691 | 686 | 628 | 397 | 514 | 141 | 272 | 696 | 709 | 426 | 404 | 557 | 509 | 483 | 656 | 670 | 592 | 388 | 491 | 534 | 373 | 448 | 538 | 590 | 484 | |
| FAIRBANKS ALASKA | 196 | 97 | 352 | 403 | 580 | 139 | 421 | 511 | 578 | 465 | 217 | 591 | 244 | 117 | 625 | 373 | 483 | 503 | 121 | 405 | 154 | 473 | 466 | 175 | 616 | 610 | 589 | 431 | 466 | 367 | 392 | |
| FRESNO CALIFORNIA | 50 | 624 | 510 | 504 | 563 | 622 | 617 | 403 | 626 | 601 | 506 | 334 | 45 | 241 | 322 | 482 | 624 | 86 | 153 | 644 | 654 | 177 | 676 | 449 | 665 | 571 | 303 | 64 | 430 | 430 | 527 | |
| GENEVA NEW YORK | 532 | 541 | 560 | 540 | 538 | 557 | 572 | 490 | 478 | 369 | 580 | 576 | 325 | 388 | 487 | 455 | 580 | 484 | 612 | --- | 508 | 606 | 582 | 606 | 560 | 402 | 482 | 637 | 627 | 628 | 527 | |
| GLASSBORO MONTANA | 456 | 672 | 292 | 588 | 615 | 645 | 581 | 622 | 573 | 630 | 566 | 429 | 687 | 341 | 674 | 198 | 192 | 584 | 611 | 543 | 633 | 714 | 682 | 708 | 518 | 691 | 734 | 637 | 686 | 149 | 566 | |
| GRAND JUNCTION COLO. | 228 | 277 | 541 | 621 | 622 | 109 | 637 | 627 | 666 | 538 | 246 | 557 | 227 | 502 | 608 | 193 | 328 | 196 | 62 | 252 | 189 | 425 | 659 | 596 | 524 | 675 | 568 | --- | --- | --- | 440 | |
| GREAT FALLS MONTANA | 618 | 611 | 608 | 633 | 629 | 597 | 557 | 608 | 598 | 603 | 614 | 626 | 544 | 647 | 633 | 397 | 592 | 521 | 611 | 655 | 655 | 655 | 670 | 651 | 649 | 629 | 692 | 698 | 684 | 618 | 684 | |
| GREENSBORO N.C. | 666 | 712 | 676 | 717 | 718 | 696 | 658 | 668 | 583 | 701 | 623 | 733 | 714 | 696 | 692 | 481 | 680 | 506 | 742 | 683 | 616 | 720 | 760 | 599 | 776 | 686 | 713 | 710 | 789 | 812 | 684 | |
| INDIANAPOLIS INDIANA | 617 | 578 | 613 | 618 | 604 | 594 | 645 | 393 | 624 | 499 | 537 | 679 | 404 | 334 | 518 | 402 | 293 | 558 | 388 | 601 | 305 | 579 | 642 | 708 | 620 | 414 | 476 | 623 | 475 | 515 | 528 | |
| ITHACA NEW YORK | 449 | --- | 503 | 561 | 506 | 402 | 471 | 387 | 463 | 572 | 537 | 466 | 518 | 511 | 608 | 457 | 498 | 640 | 85 | 162 | 404 | 148 | 56 | 592 | 484 | 597 | 472 | 455 | 566 | 566 | 446 | |
| LAKE CHARLES LA. | 324 | 361 | 170 | 153 | 232 | 394 | 400 | 435 | 391 | 235 | 445 | 143 | 255 | 446 | 439 | 509 | 393 | 339 | 287 | 256 | 403 | 389 | 240 | 437 | 531 | 367 | 447 | 410 | 510 | 354 | 446 | |
| LAKELAND FLORIDA | 396 | 695 | 601 | 555 | 661 | 546 | 632 | 524 | 152 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| LANSING MICHIGAN | 609 | 595 | 590 | 592 | 599 | 611 | 631 | 620 | 589 | 579 | 655 | 616 | 401 | 422 | 604 | 572 | 650 | 656 | 643 | 634 | 371 | 663 | 676 | 687 | 687 | 345 | 610 | 594 | 689 | 691 | 596 | |
| LITTLE ROCK ARKANSAS | 475 | 238 | 425 | 52 | 64 | 559 | 676 | 644 | 546 | 496 | 418 | 430 | 586 | 636 | 676 | 576 | 618 | 533 | 642 | 136 | 516 | 593 | 652 | 425 | 525 | 420 | 486 | 534 | 464 | 525 | 486 | |
| LOS ANGELES CALIF. | 277 | 57 | 422 | 323 | 424 | 286 | 316 | 468 | 414 | 268 | 314 | 524 | 536 | 428 | 532 | 451 | 425 | 264 | 439 | 341 | 161 | 491 | 316 | 66 | 520 | 536 | 521 | 457 | 491 | 407 | 385 | |
| LANSING MICHIGAN | 271 | 315 | 443 | 371 | 512 | 543 | 602 | 579 | 508 | 537 | 320 | 475 | 233 | 137 | 320 | 414 | 505 | 259 | 214 | 355 | 270 | 383 | 464 | 483 | 523 | 448 | 139 | 116 | 465 | 731 | 391 | |
| LANSING MICHIGAN | 613 | 605 | 471 | 638 | 601 | 627 | 499 | 499 | 627 | 488 | 350 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| LANSING MICHIGAN | 318 | 256 | 562 | 289 | 481 | 586 | 462 | 528 | 261 | 460 | 300 | 413 | 250 | 199 | 327 | 286 | 691 | 594 | 460 | 333 | 401 | 430 | 686 | 577 | 617 | 331 | 187 | 213 | 693 | 453 | 419 | |
| LANSING MICHIGAN | 97 | 358 | 562 | 442 | 539 | 304 | 514 | 576 | 471 | 494 | 566 | 536 | 247 | 354 | 504 | 588 | 208 | 544 | 158 | 535 | 597 | 446 | 384 | 374 | 370 | 69 | 486 | 70 | 554 | 353 | 411 | |
| LANSING MICHIGAN | 82 | 186 | --- | 387 | 578 | 123 | 561 | 503 | 566 | 572 | 507 | 443 | 277 | 167 | 167 | 565 | 373 | 380 | 375 | 170 | 443 | 616 | 461 | 461 | 461 | 509 | 214 | 214 | 272 | 408 | 38 | |
| LANSING MICHIGAN | 272 | 93 | 433 | 324 | 480 | 277 | 370 | 604 | 349 | 226 | 492 | 647 | 678 | --- | 592 | 668 | 528 | 312 | 560 | 443 | 508 | 297 | 112 | 537 | 527 | 573 | 531 | 611 | 527 | 436 | 436 | |
| LANSING MICHIGAN | 132 | 666 | 669 | 535 | 490 | 663 | 606 | 350 | 191 | 59 | 188 | 510 | 437 | 677 | 187 | 406 | 434 | 509 | 677 | 614 | 538 | 348 | 457 | 276 | 468 | 409 | 330 | 526 | 449 | 536 | 536 | |
| LANSING MICHIGAN | 503 | 303 | 259 | 378 | 290 | 498 | 660 | 642 | 636 | | | | | | | | | | | | | | | | | | | | | | | |

SOLAR RADIATION TOTALS

Daily totals and monthly averages of solar radiation (direct and diffuse) received on a horizontal surface, tabulated in langleys.

APRIL 1970

| Station | Day of month | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Avg. | |
|-----------------------|--------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|-----|-----|-----|-----|-----|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | | |
| OAK RIDGE TENNESSEE | 57 | 169 | 585 | 508 | 516 | 355 | 615 | 581 | 406 | 566 | 564 | 407 | 444 | 232 | 478 | 499 | 98 | 467 | 502 | 624 | 650 | 385 | 473 | 199 | 358 | 183 | 205 | 112 | 558 | 510 | | 410 | |
| OKLAHOMA CITY OKLA. | 71 | 619 | 568 | 74 | 639 | 619 | 613 | 524 | 410 | 540 | 593 | 639 | 664 | 398 | 455 | 70 | 232 | 294 | 664 | 557 | 624 | 281 | 269 | 437 | 301 | 485 | 624 | 347 | 76 | 426 | | 435 | |
| PHOENIX ARIZONA | 668 | 659 | 681 | 715 | 707 | 683 | 682 | 705 | 664 | 678 | 703 | 724 | 500 | 726 | 739 | 679 | 463 | 600 | 723 | 598 | 734 | 757 | 760 | 768 | 778 | 770 | 596 | 643 | 767 | 785 | | 688 | |
| PORTLAND MAINE | 647 | 45 | 388 | 472 | 512 | 566 | 412 | 256 | 253 | 234 | 569 | 367 | 376 | 618 | 601 | 611 | 351 | 517 | 653 | 222 | 101 | 196 | 528 | 48 | 553 | 637 | 597 | 619 | 899 | 585 | | 448 | |
| PROSSER WASHINGTON | 469 | 471 | 541 | 332 | 345 | 295 | 509 | 492 | 165 | 463 | --- | --- | 487 | 427 | 497 | 567 | 524 | 330 | 157 | 435 | 426 | 565 | 432 | 462 | 365 | 383 | 406 | 458 | 436 | 637 | | 431 | |
| RAPID CITY S.DAK. | 553 | 417 | 572 | 544 | 458 | 564 | 508 | 546 | 550 | 385 | 90 | 238 | 486 | 158 | 539 | 632 | 197 | 309 | 550 | 558 | 680 | 537 | 569 | 629 | 621 | 612 | 609 | 429 | 570 | 586 | | 489 | |
| RENO NEVADA | 556 | 559 | 580 | 567 | 556 | 574 | 520 | 376 | 478 | 538 | 539 | 606 | 460 | 359 | 422 | 300 | 443 | 517 | 539 | 345 | 425 | 403 | 425 | 344 | 448 | 381 | 578 | 499 | 384 | 659 | | 447 | |
| RICHLAND 25 NW WASH. | 444 | 354 | 550 | 312 | 248 | 182 | 232 | 525 | --- | 521 | 565 | 602 | 566 | 404 | 556 | 637 | 578 | 356 | 115 | 368 | 421 | 403 | 425 | 344 | 448 | 381 | 578 | 499 | 384 | 659 | | 447 | |
| RIVERSIDE CALIFORNIA | 682 | 653 | 654 | 693 | 699 | 601 | 605 | 605 | 625 | 648 | 650 | 669 | 563 | 702 | 664 | 281 | 311 | 669 | 394 | 609 | 560 | 734 | 717 | 774 | 728 | 529 | 502 | 555 | 723 | 745 | | 618 | |
| RUSTON LOUISIANA | 94 | 606 | 597 | 506 | 534 | 588 | 565 | 544 | 127 | 223 | 87 | 416 | 582 | 592 | 178 | 116 | 281 | 307 | 423 | 609 | 703 | 385 | 372 | 126 | 261 | 317 | 341 | 431 | 436 | 454 | | 393 | |
| SAINT CLOUD MINN. | 551 | 329 | 436 | 541 | 280 | 310 | 517 | 505 | 543 | 375 | 479 | 107 | 118 | 500 | 42 | 398 | 262 | 189 | 32 | 173 | 226 | 43 | 602 | 569 | 579 | 543 | 426 | 361 | 451 | 497 | | 366 | |
| SALT LAKE CITY | 618 | 555 | 635 | 658 | 498 | 653 | 602 | 523 | 654 | 552 | 478 | 634 | 333 | 322 | 529 | 465 | 534 | 708 | 254 | 603 | 400 | 390 | 659 | 631 | 518 | 363 | 211 | 460 | 655 | 435 | | 515 | |
| SAN ANTONIO TEXAS | 438 | 636 | 642 | 497 | 506 | 619 | 587 | 150 | 154 | 564 | 650 | 631 | 310 | 216 | 71 | 164 | 334 | 225 | 701 | 673 | 608 | 378 | 402 | 249 | 419 | 477 | 181 | 243 | 293 | 190 | | 407 | |
| SANTA MARIA CALIF. | 626 | 615 | 605 | 615 | 623 | 613 | 612 | 607 | 617 | 607 | 656 | 637 | 628 | 607 | 603 | 625 | 664 | 647 | 661 | 623 | 584 | 683 | 676 | 682 | 686 | 663 | 690 | 634 | 703 | 702 | | 659 | |
| SAULT STE MARIE MICH. | 407 | 484 | 540 | 494 | 303 | 216 | 499 | 307 | 230 | 556 | 615 | 619 | 617 | 623 | 586 | 86 | 158 | 610 | 517 | 67 | 208 | 591 | 263 | 422 | 632 | 569 | 469 | 617 | 535 | 188 | | 434 | |
| SEATTLE TACOMA WASH. | 96 | 438 | 443 | 148 | 97 | 248 | 404 | 254 | 176 | 483 | 354 | 423 | 535 | 579 | 580 | 580 | 558 | 150 | 348 | 306 | 203 | 479 | 225 | 480 | 369 | 581 | 279 | 566 | 70 | 528 | | 366 | |
| SPOKANE WASHINGTON | 207 | 299 | 485 | 231 | 200 | 417 | 504 | 315 | 122 | 423 | 381 | 435 | 527 | 539 | 487 | 566 | 534 | 360 | 159 | 257 | 324 | 280 | 392 | 365 | 390 | 423 | 324 | 334 | 564 | 337 | 535 | | 373 |
| STERLING VIRGINIA | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 585 | 295* | 319* | 45 | 281 | 584 | 375 | 613 | 175 | 384 | 341 | 569 | 61 | 128 | 595 | 176 | 257 | 255 | 526 | 529 | --- | --- | |
| SWAN ISLAND W.I. | 584 | 577 | 593 | 588 | 594 | 538 | 511 | 539 | 333 | 567 | 544 | 530 | 577 | 569 | 599 | 587 | 613 | 515 | 614 | 611 | 531 | 560 | 587 | 477 | 598 | 600 | 598 | 599 | 599 | 599 | | 565 | |
| TAMPA FLORIDA | 557 | 264 | 287 | 386 | 317 | 500 | 610 | 641 | 613 | 612 | 443 | 321 | 638 | 634 | 641 | 613 | 596 | 638 | 643 | 593 | 613 | 564 | 661 | 530 | 390 | 554 | 609 | 596 | 626 | 537 | | 541 | |
| TUCSON ARIZONA | 613 | 618 | 609 | 618 | 610 | 589 | 616 | 620 | 533 | 600 | 613 | 621 | 436 | 569 | 645 | 625 | 325 | 334 | 626* | 581* | 655 | 666 | 671 | 663 | 667 | 663 | 665 | 505 | 636 | 653 | | 595* | |
| WAKE ISLAND PACIFIC | 648 | 664 | 656 | 643 | 641 | 597 | 593 | 653 | 617 | 519 | 657 | 658 | 651 | 655 | --- | 658 | 671 | 675 | 632 | 614 | 666 | 641 | 525 | 555 | 555 | 671 | 597 | 612 | --- | 649 | | 627 | |

Note.---Langley is the unit used to denote one gram calorie per square centimeter. The solar radiation data in this table form the basis for the analyses in Charts VII, A, and B, of this publication. The analyses include adjustments required to bring station records to approximately the same level of calibration.

Values with an asterisk are interpolated.

NOT RADIATION IN MARGLEYS PER DAY (8 a.m. to 8 a.m.) at Palmer, Alaska

APRIL 1970

[illegible]

The measurement is made with a CSIRO FUNK net exchange radiometer over a plot of sod. The value represents the total incoming minus the total outgoing radiation of all wave lengths.

These data are of an experimental nature and are published as received from the Palmer Exp. Station. The instrument with which they were measured has not been checked by the ESSA, Weather Bureau.

SOLAR ULTRA-VIOLET RADIATION DATA

Daily totals and monthly average ($\lambda = 3900 \text{ \AA}$) at Ames, Iowa

| Date. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | Avg. |
|----------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|-------|------|-------|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|----|------|
| Langley's. . . | 4.38 | 14.44 | 10.89 | 17.28 | 10.89 | 17.64 | 16.69 | 16.81 | 17.46 | 14.68 | 12.19 | 5.44 | 3.07 | 12.66 | 4.85 | 17.64 | 18.58 | 2.60 | 10.77 | 18.94 | 14.20 | 17.87 | 17.76 | 17.76 | 16.81 | 18.93 | 19.30 | 10.30 | 6.63 | 12.81 | | |

These data are from an U - V Eppley total ultra violet sensor and Speedomax H (Leeds Northrup) Recorder. It is at the same location (Agronomy Building, Iowa State

University, Ames) as the published total solar radiation instrument. This instrument has not been checked by the ESSA, weather bureau.

TOTAL OZONE DATA

These provisional ozone data are obtained from measurements made with a Dobson ozone spectrophotometer, and are applicable approximately to local apparent noon. The data are presented in the code 3.3.3.

UNITED STATES AIR FORCE

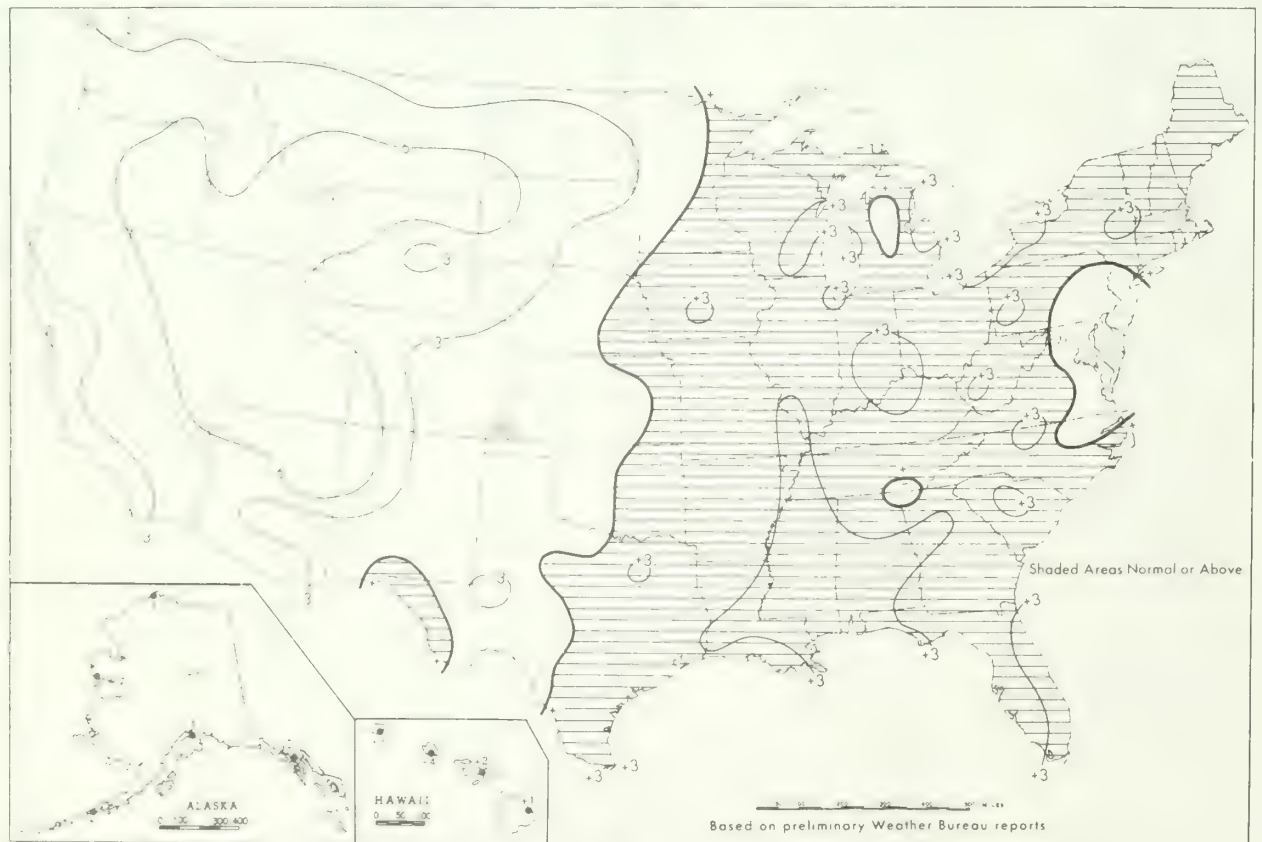
the same way as the other two, but the temperature was 100°C. The amount of the monomer was 0.05 mole, and the amount of the initiator was 0.005 mole. The amount of the solvent was 10 ml. The standard temperature was 100°C.

[illegible]

Chart 1. A. Normal Daily Average Temperature (°F. 1931-60), April.



B. Temperature Departure from 30 - Year Mean (°F 1931-60), April 1970.



Based on preliminary Weather Bureau reports

Chart II. Total Precipitation (Inches), April 1970.

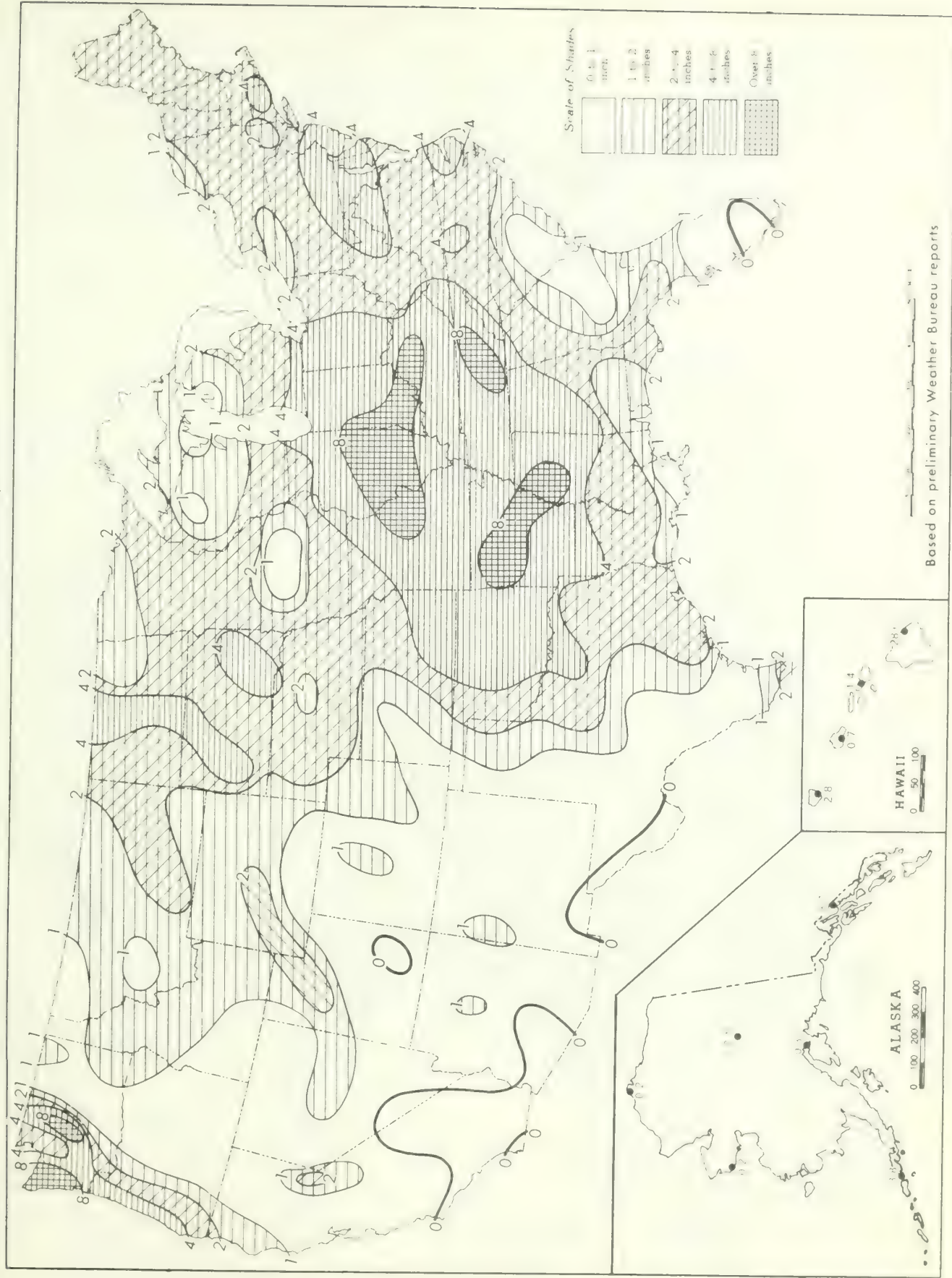
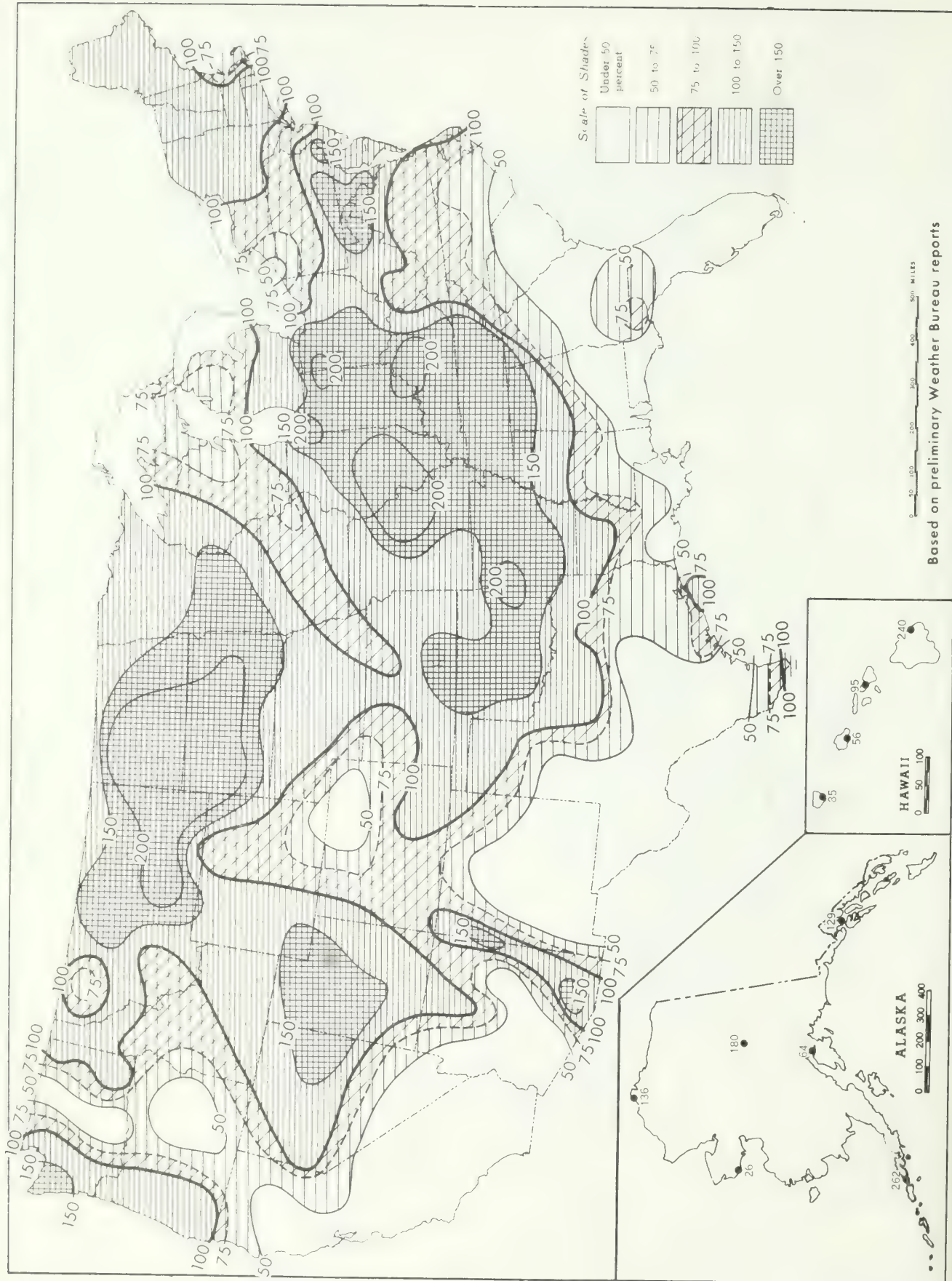
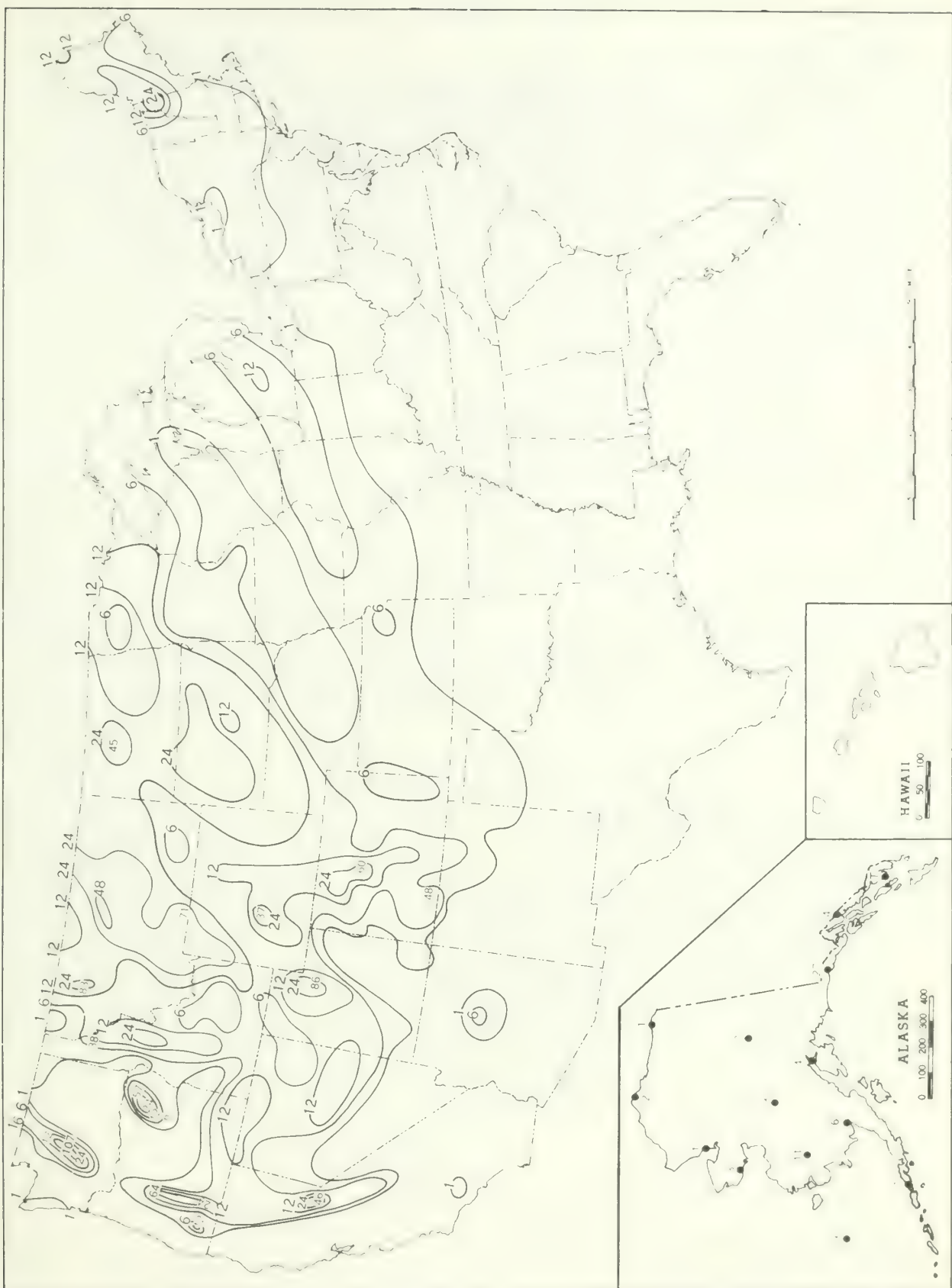


Chart III Percentage of Normal Precipitation, April 1970.



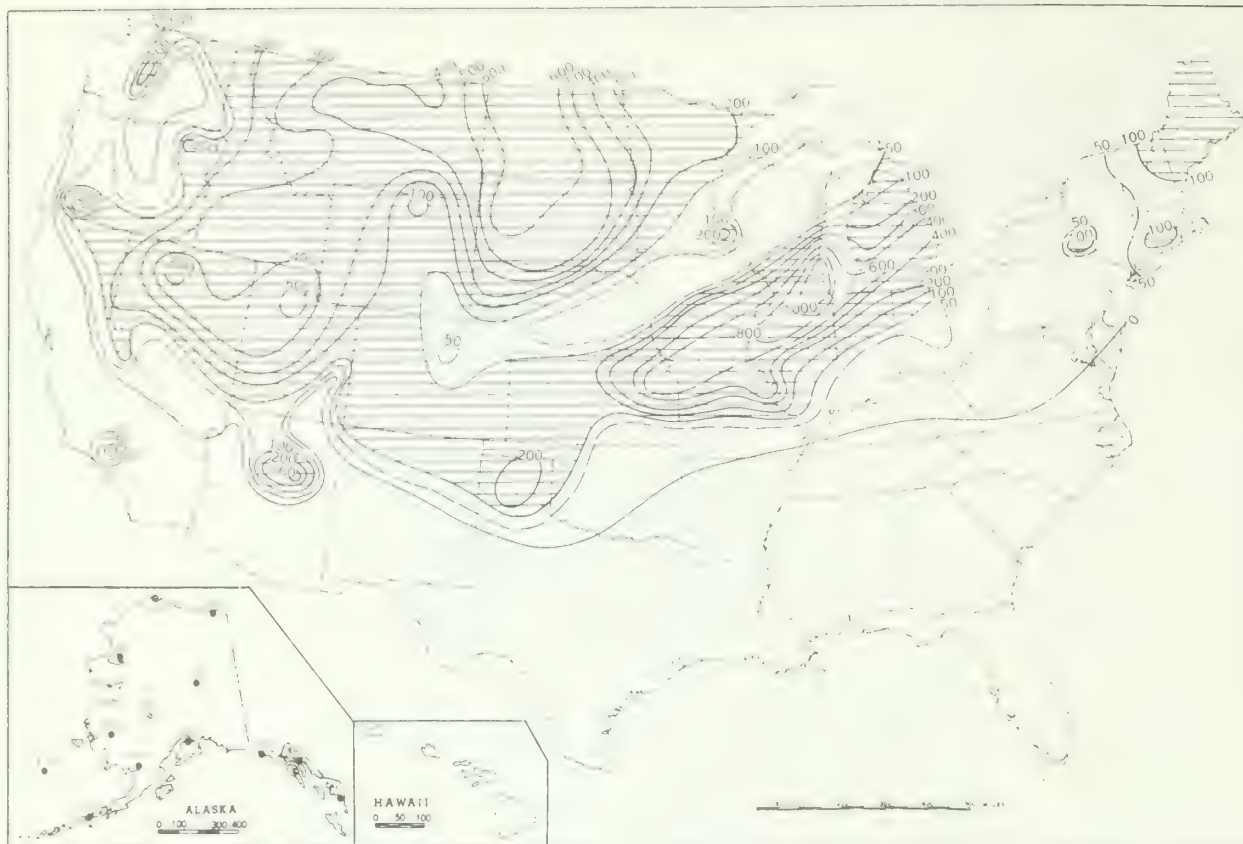
Based on preliminary Weather Bureau reports

Chart IV. Total Snowfall (Inches), April 1970.

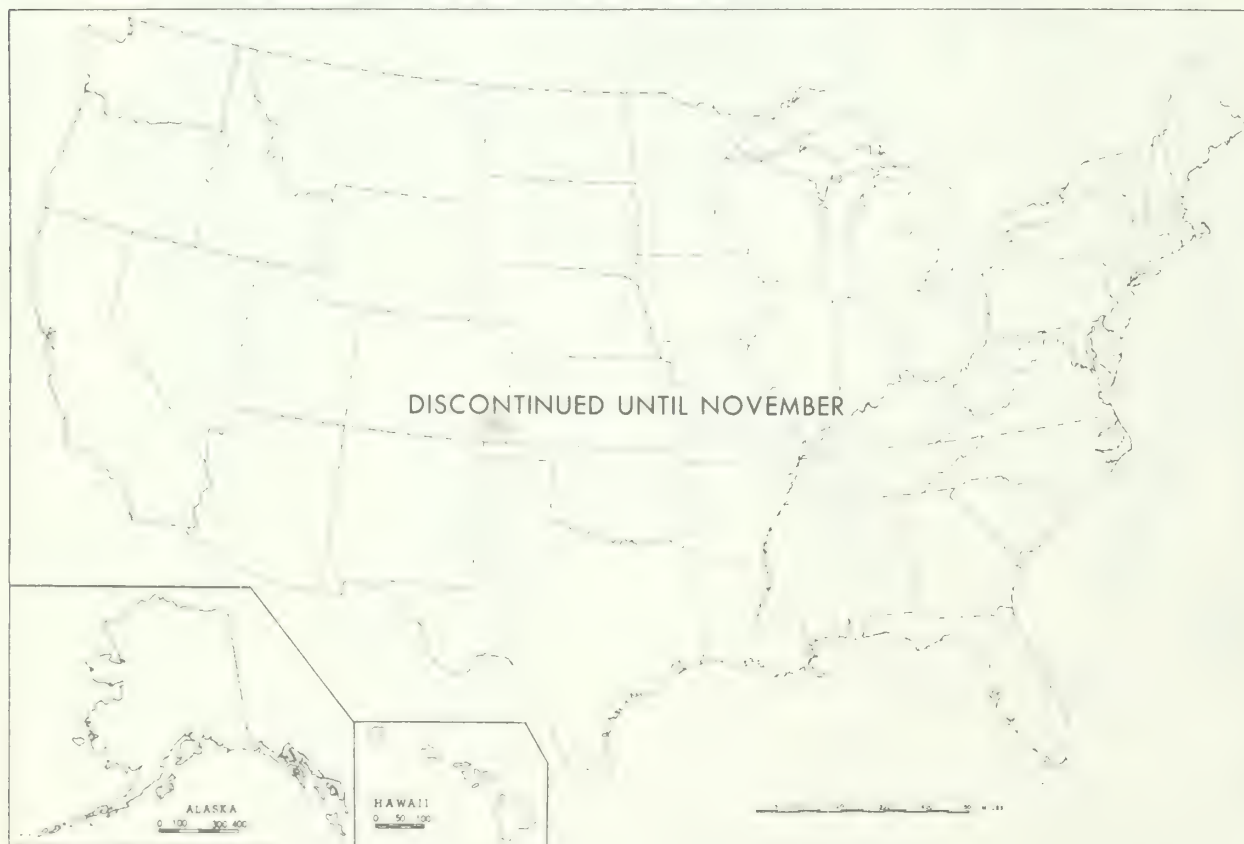


This is the total of unmelted snowfall recorded during the month at Weather Bureau and selected cooperative stations. This Chart and Chart V are published only for the months of November through April, although of course there is some snow at higher elevations, particularly in the far West, earlier and later in the year.

Chart V. A. Percentage of Mean Monthly Snowfall, April 1970.

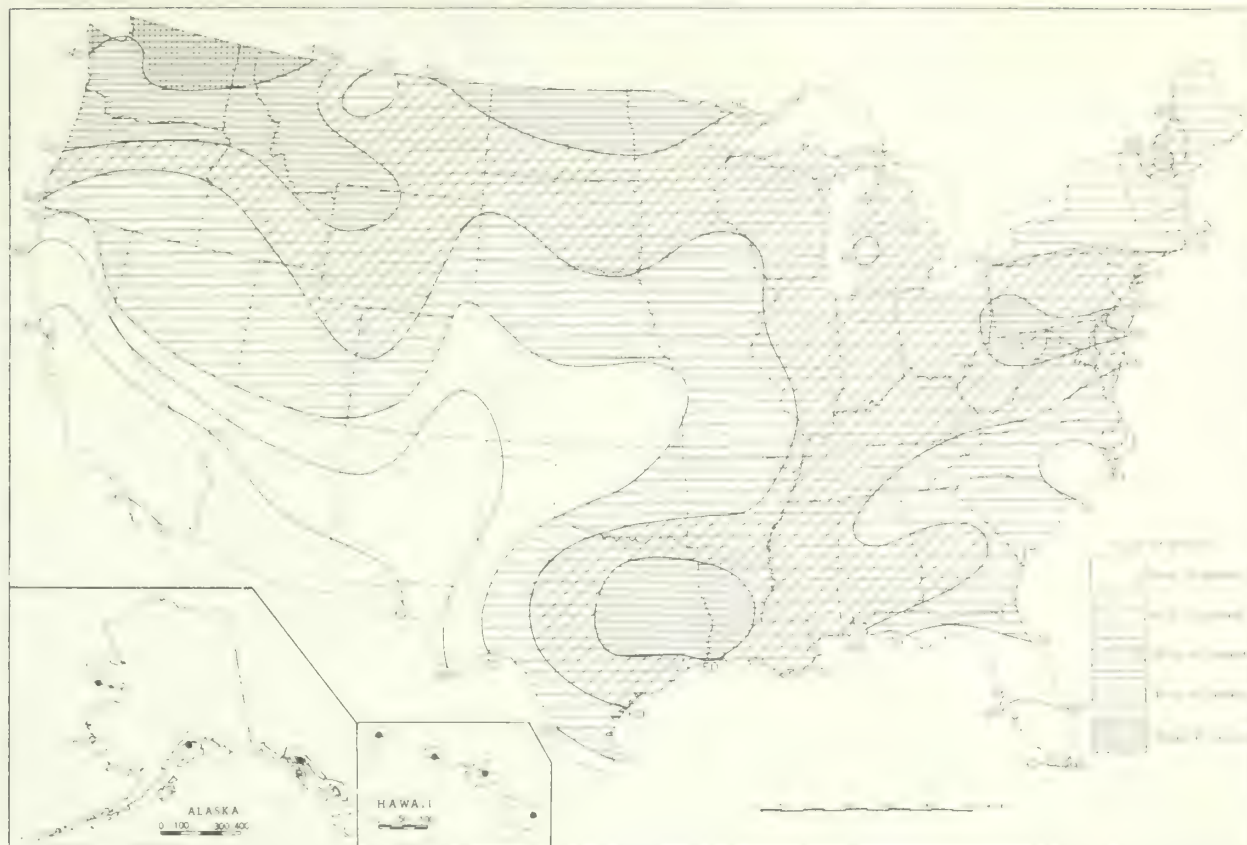


B. Depth of Snow on Ground (Inches), 7:00 a.m. E. S. T., April 1970.

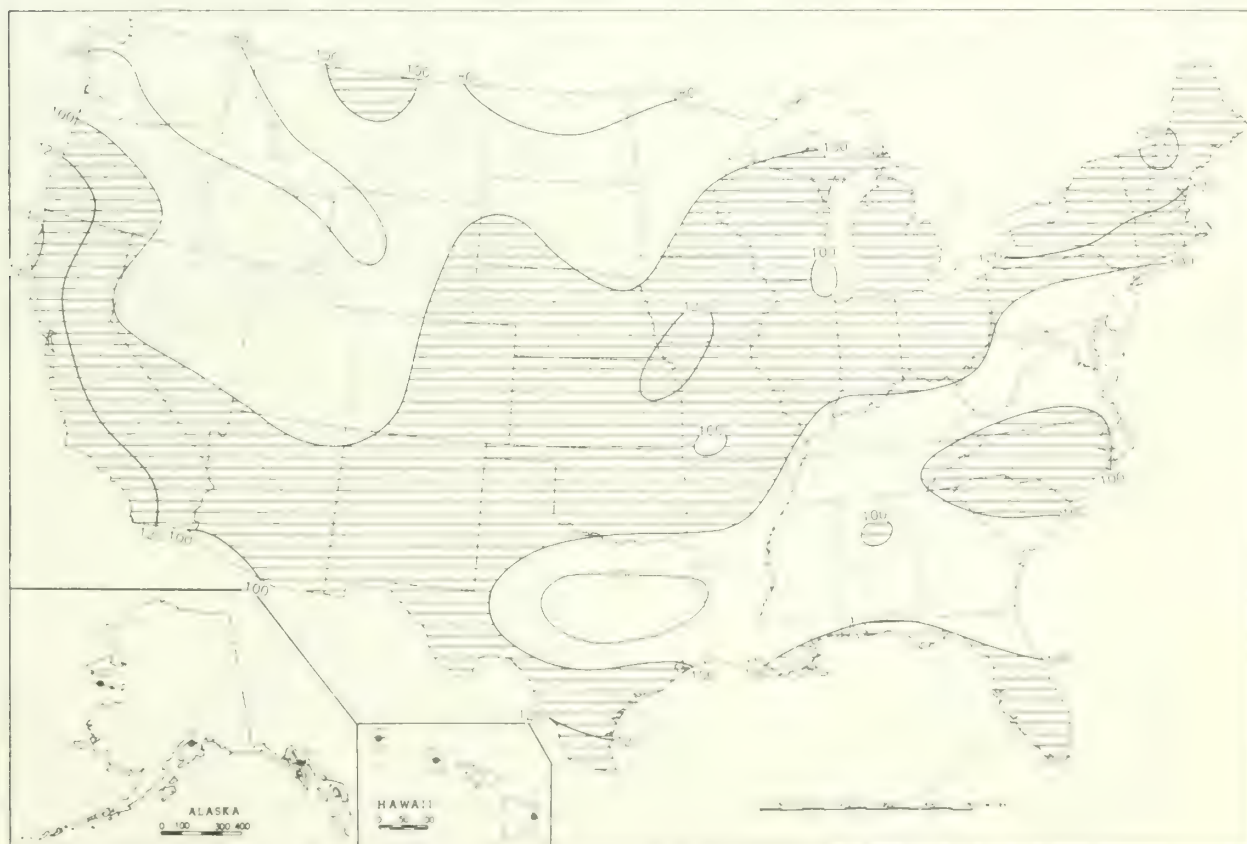


- A. Amount of mean monthly snowfall is computed for Weather Bureau stations having at least 10 years of record.
 B. Shows depth currently on ground at 7:00 a.m. E.S.T., of the Monday nearest the end of the month.
 It is based on reports from Weather Bureau and selected cooperative stations.

Chart VI. A. Percentage of Possible Sunshine, April 1970.

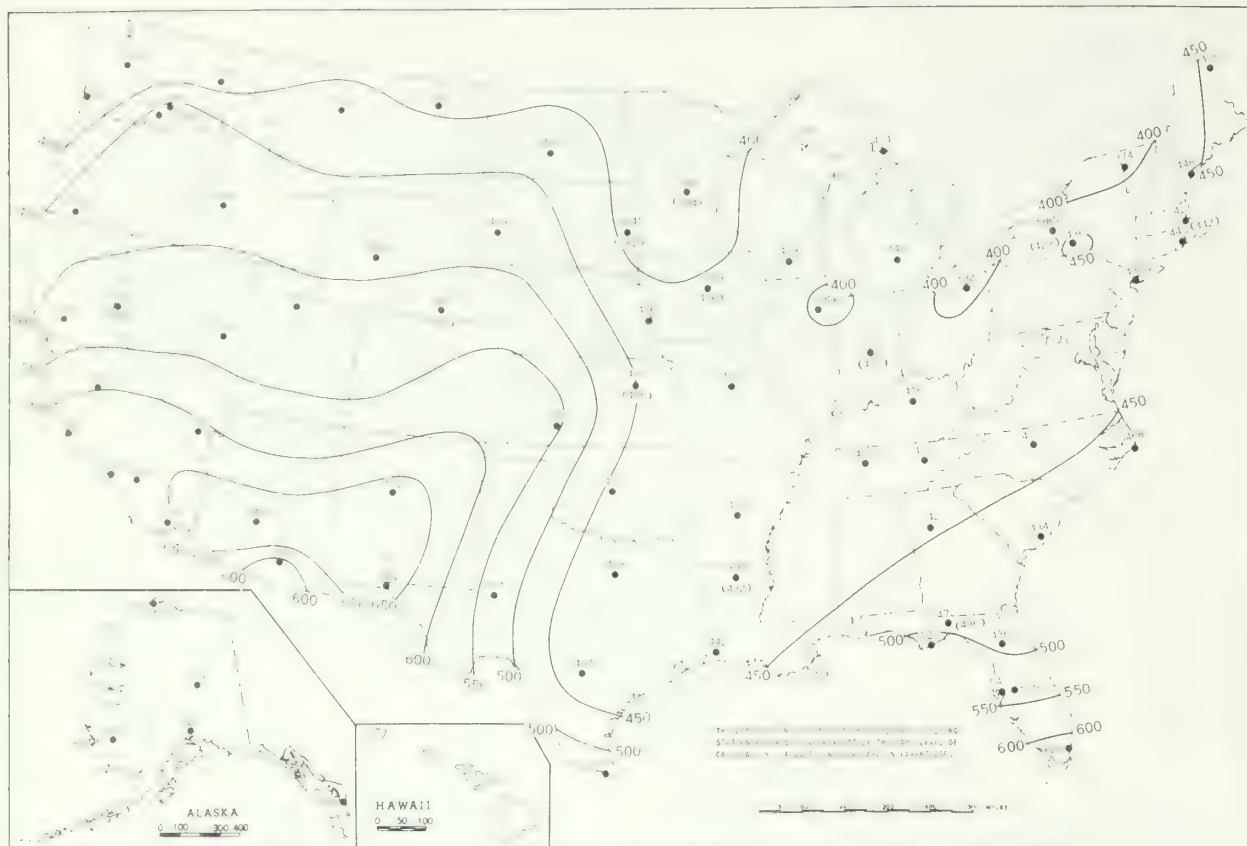


B. Percentage of Mean Monthly Sunshine, April 1970.

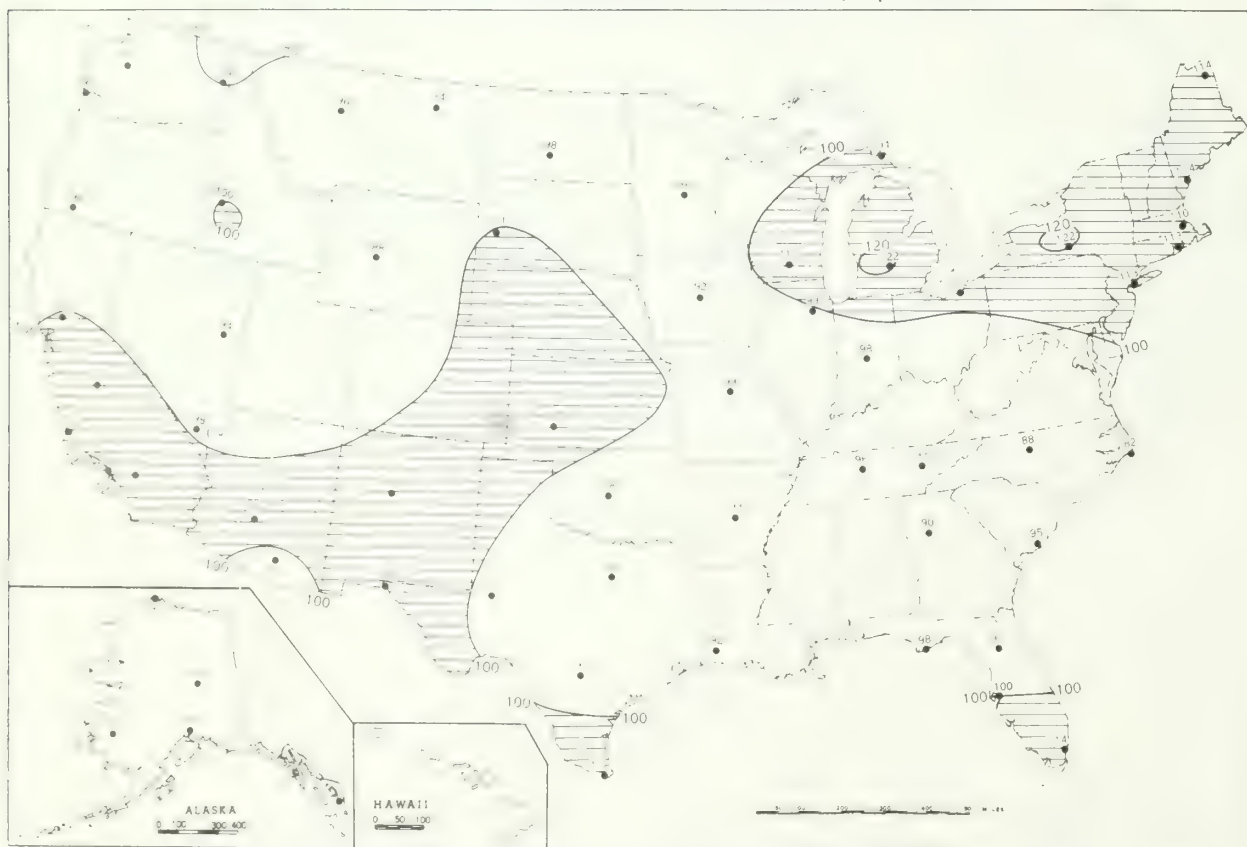


A. Computed from total number of hours of observed sunshine in relation to total number of possible hours of sunshine during month. B. Means are computed for stations having at least 10 years of record.

Chart VII. A. Average Daily Values of Solar Radiation, Langleys, April 1970.

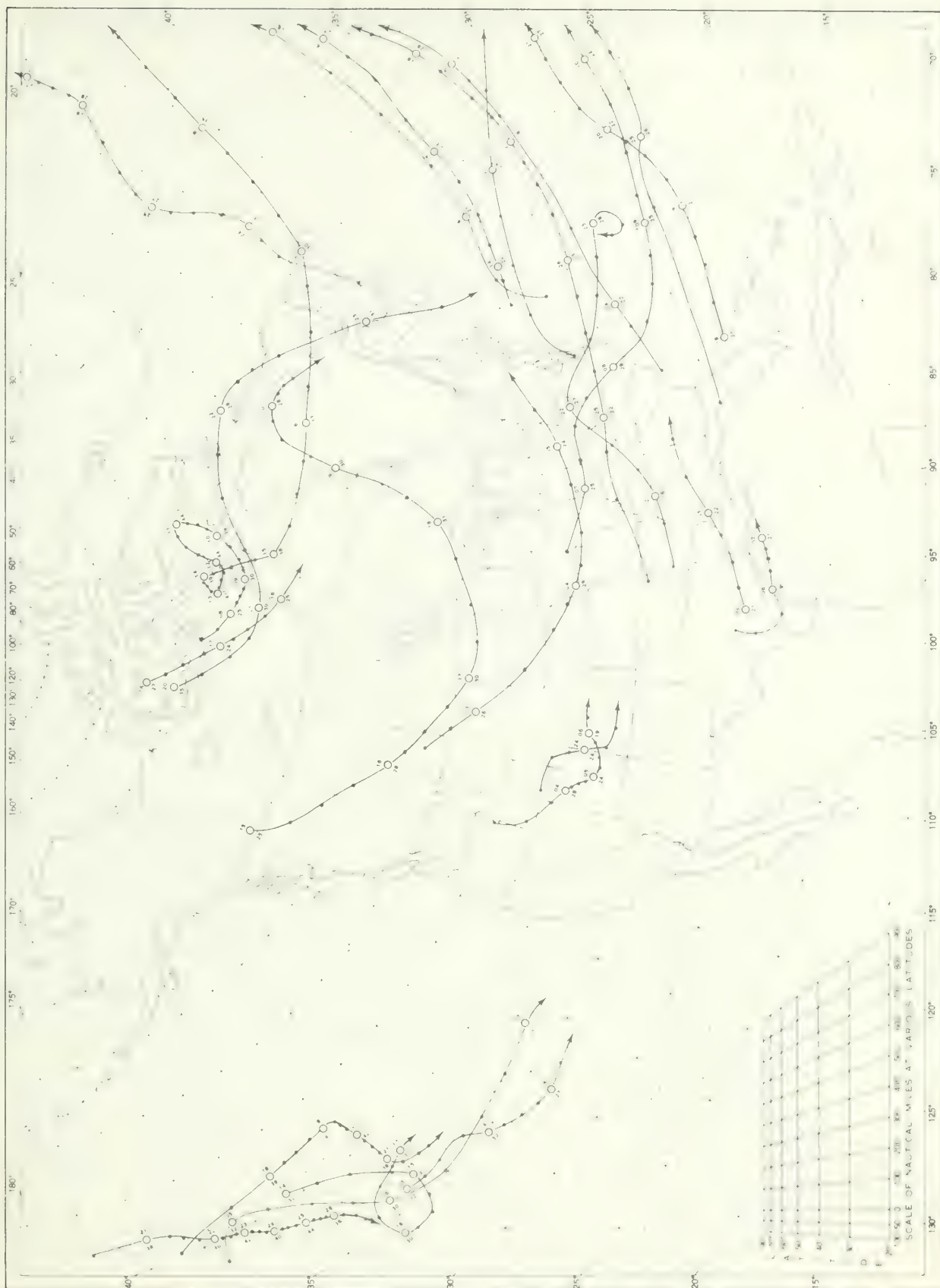


B. Percentage of Mean Daily Solar Radiation, April 1970.



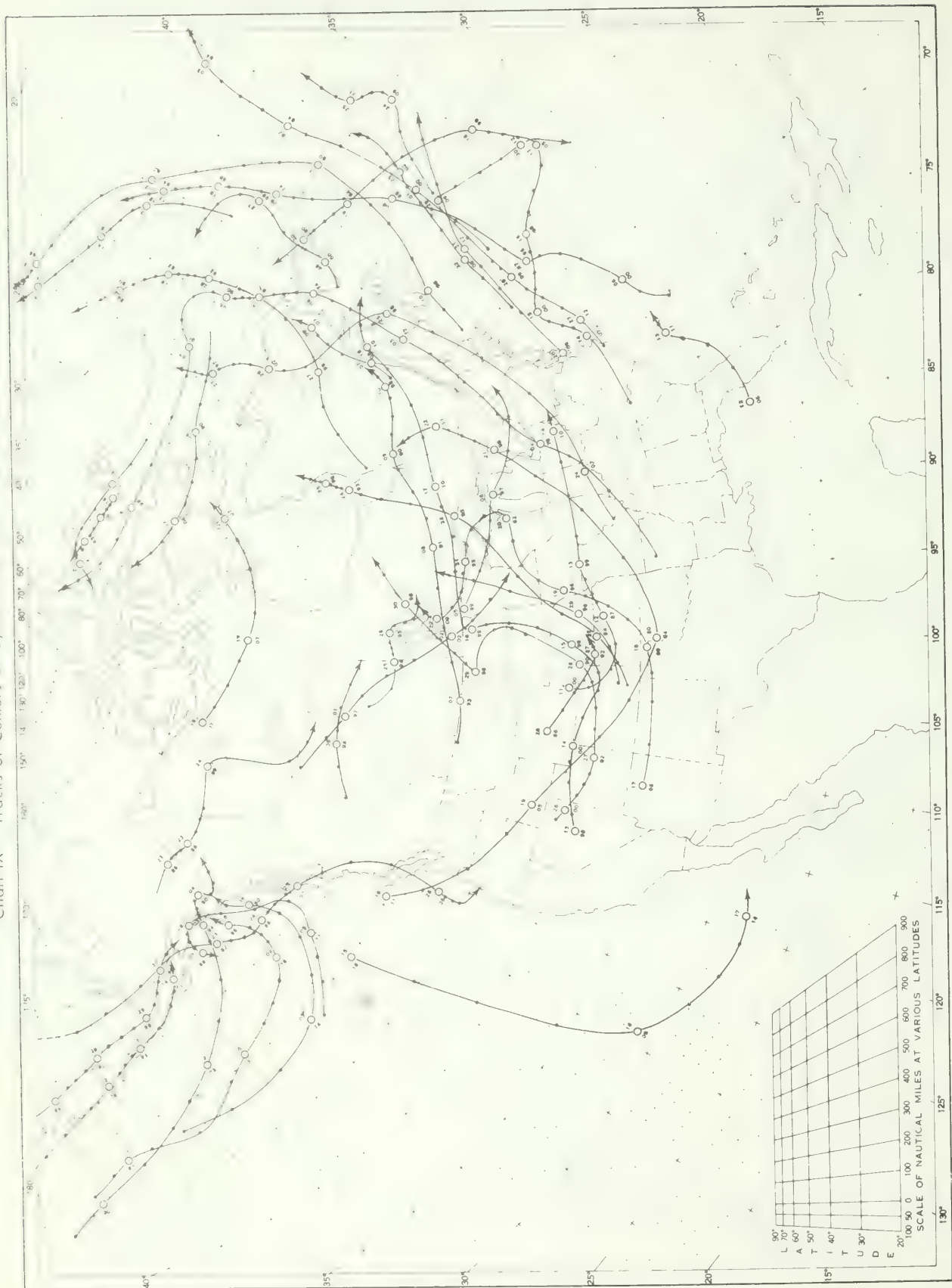
A. Mean daily solar radiation, direct + diffuse, received on a horizontal surface in langleys (1 langley = 1 gm. cal. cm.⁻²) and recorded in International Pyrheliometer Scale of 1956. B. Percentage of the mean based on at least 5 years of record during the period 1950-60, and corrected to the International Pyrheliometer Scale of 1956.

Chart VIII Tracks of Centers of Anticyclones at Sea Level, April 1970.



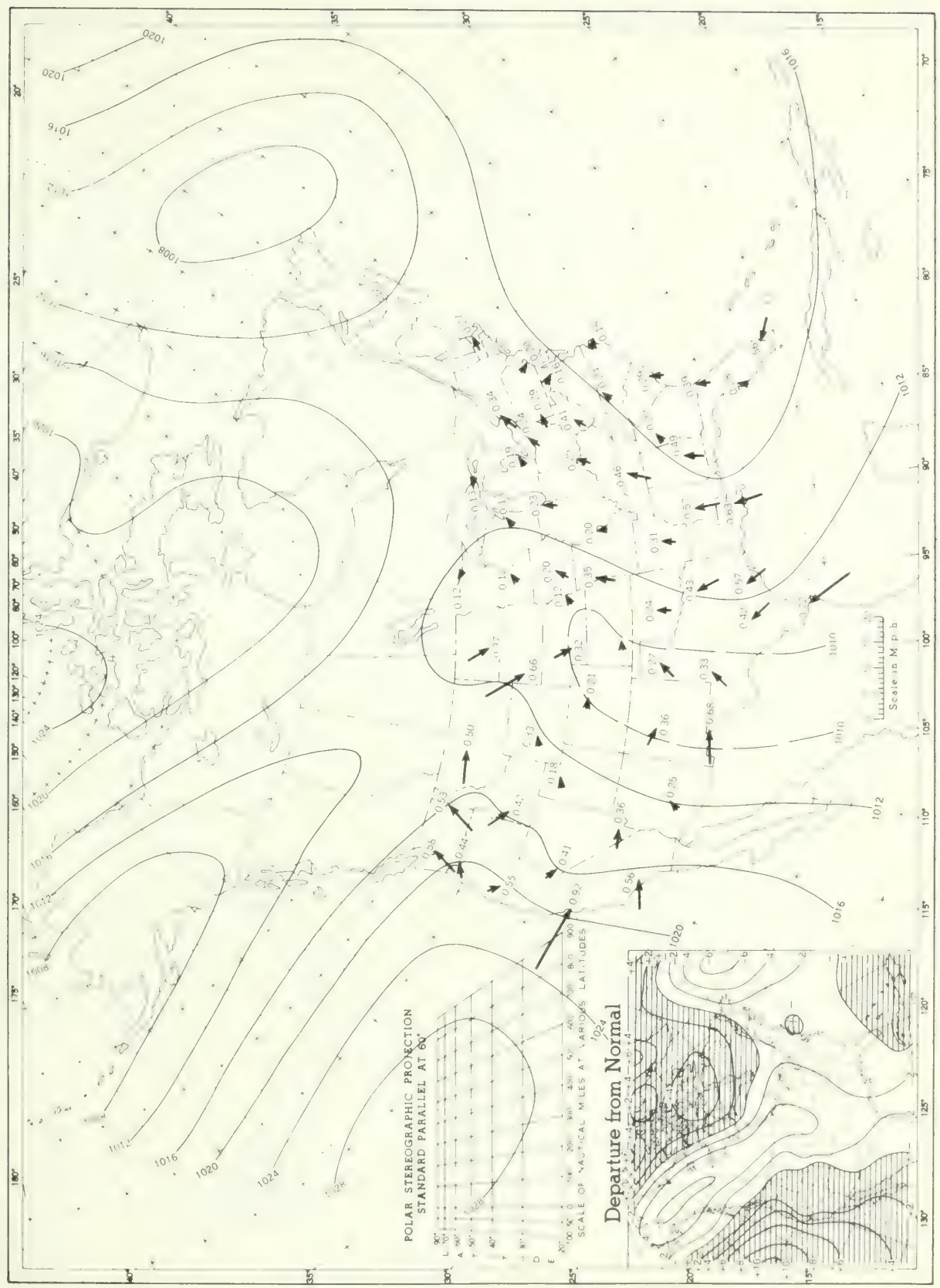
Circle indicates position of center at 7:00 a.m. E.S.T. Figure above circle indicates date, figure below, pressure to nearest millibar. Dots indicate intervening 6 hourly positions. Squares indicate position of stationary center for period shown. Dashed line in track indicates reformation at new position. Only those centers which could be identified for 24 hours or more are included.

Chart IX Tracks of Centers of Cyclones at Sea Level, April 1970



Circle indicates position of center at 7:00 a.m. E.S.T. Figure above circle indicates date, figure below, pressure to nearest millibar. Dots indicate intervening 6-hourly positions. Squares indicate position of stationary center for period shown. Dashed line in track indicates reformation at new position. Only those centers which could be identified for 24 hours or more are included.

Chart X Average Sea Level Pressure (mb) and Resultant Surface Wind, April 1970. Inset Departure of



Average sea level pressures are obtained from eight daily hourly observations. Resultant wind directions and speeds are shown by arrows. Constant ratios resultant speed-average speed are shown to two decimal places. Pressure normals are computed for stations having at least 10 years of record and for 10 intersections in a diamond grid over the oceans.

Chart XI 350-mb Surface, 1200 GMT, April 1970. Average Height and Temperature, and Resultant Winds

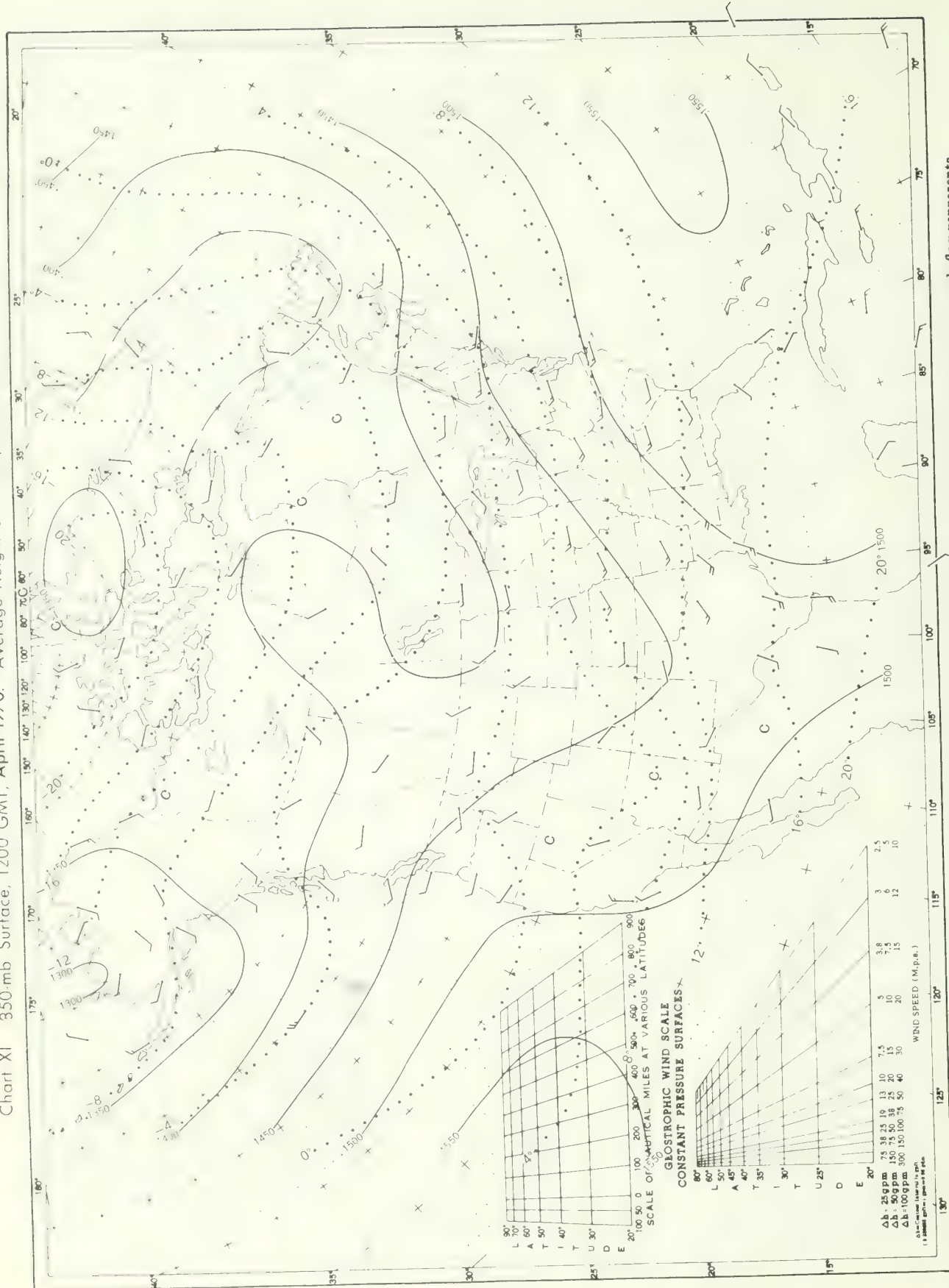
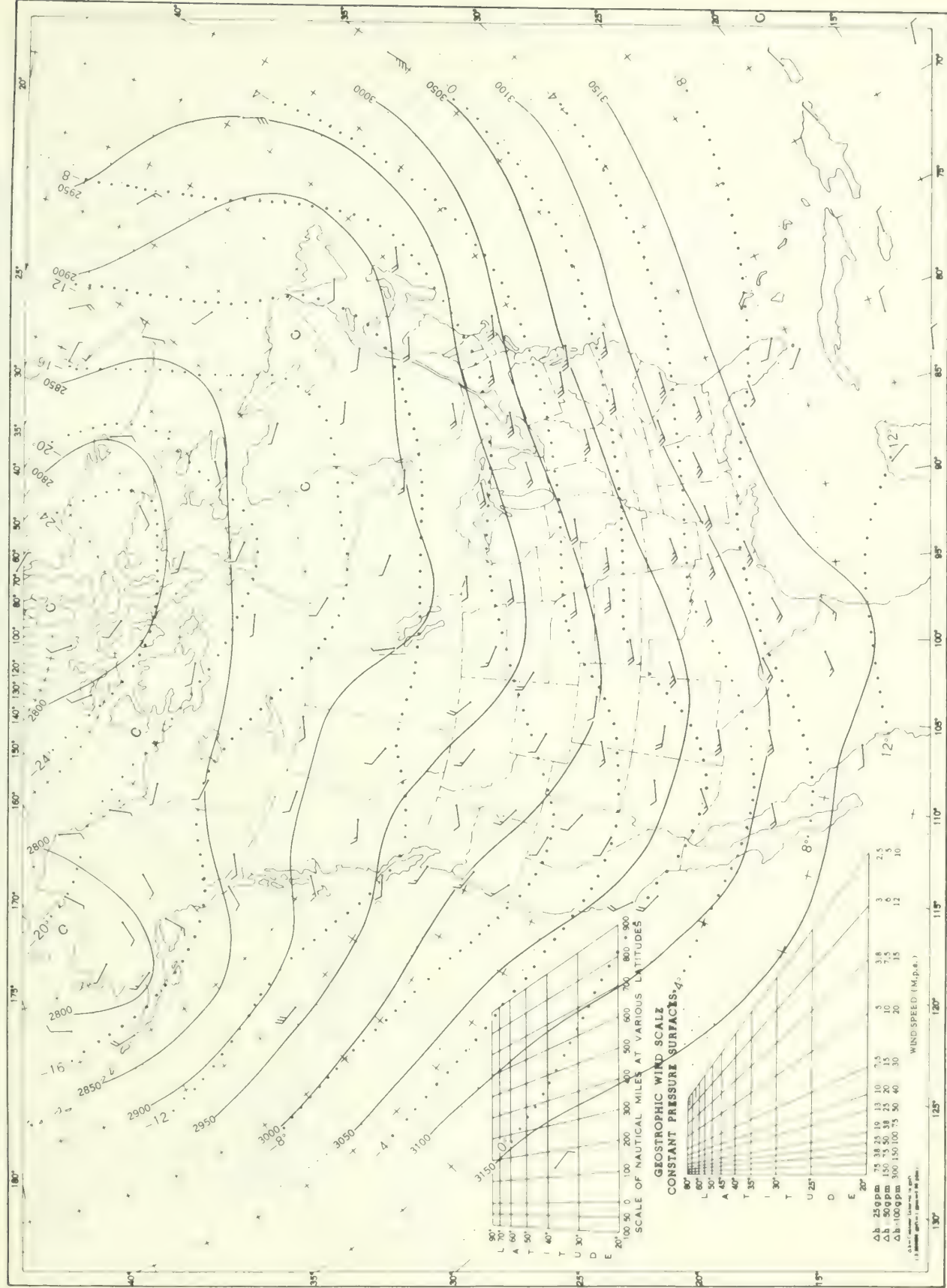
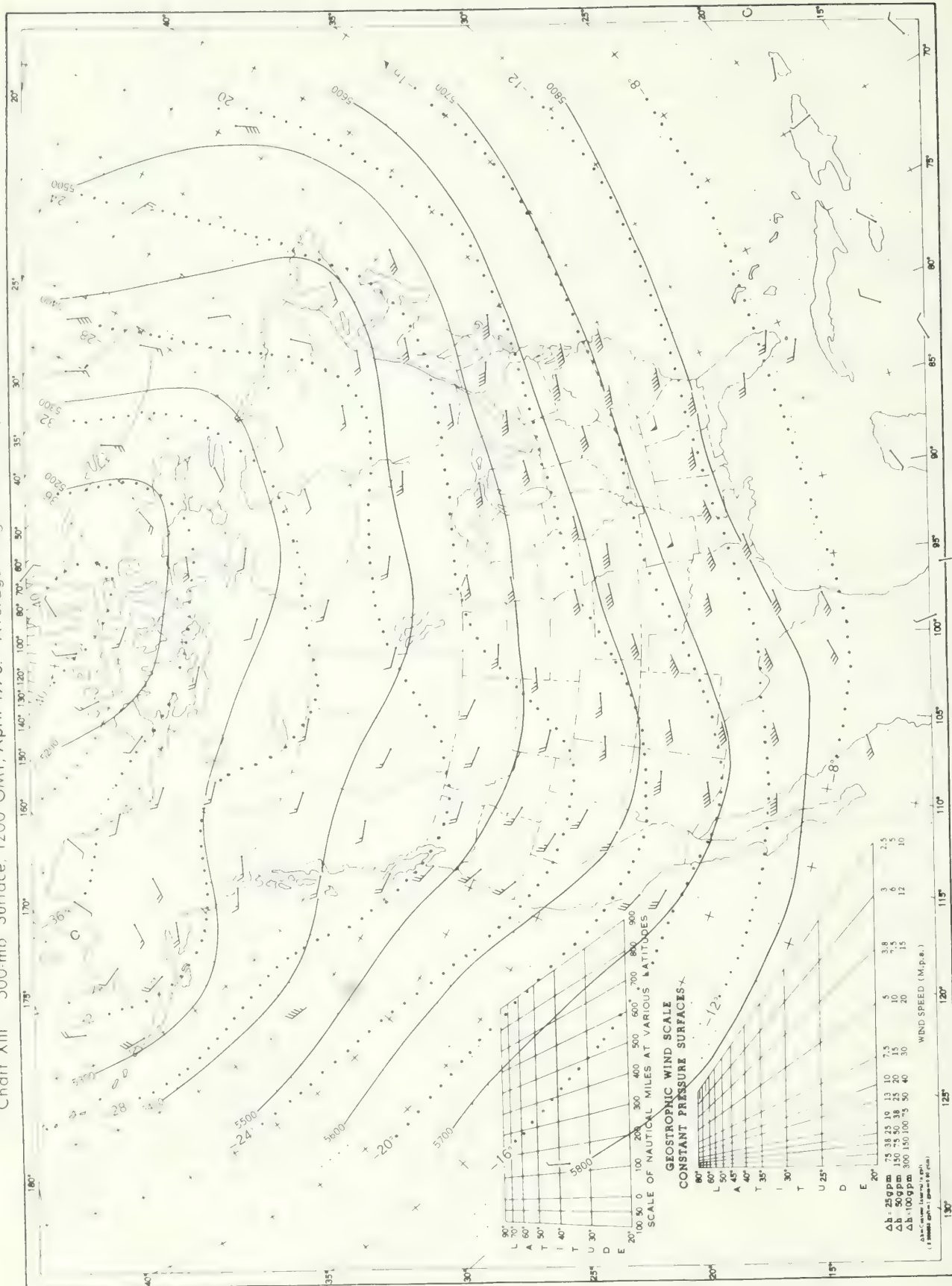


Chart XII. 700-mb Surface, 1200 GMT, April 1970. Average Height and Temperature, and Resultant Winds



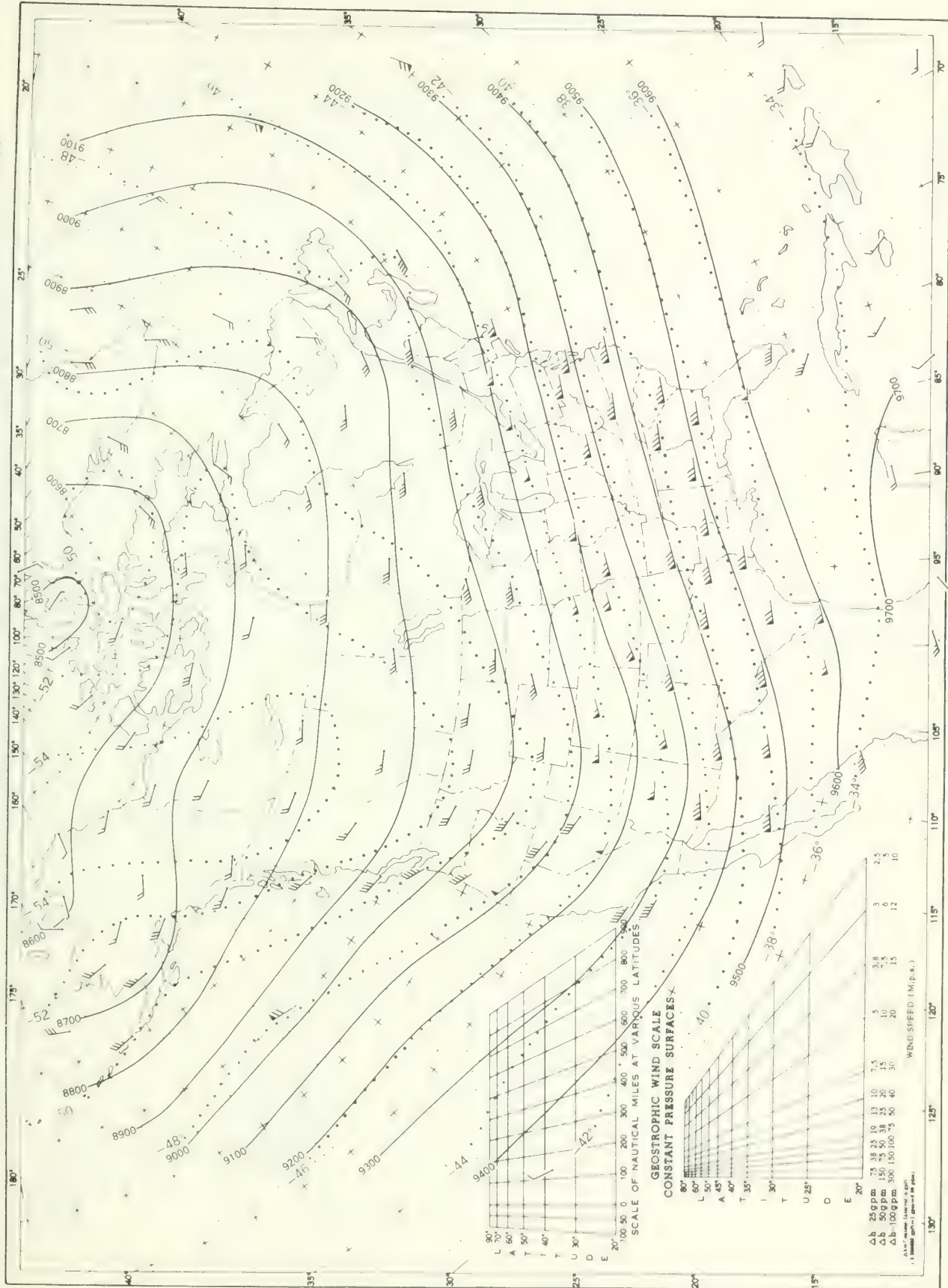
Height in geopotential meters (1 g.p.m. = 0.98 dynamic meters). Temperature in °C. Wind speed in meters per second; flag represents 25mps, full feather 5mps, and half feather 2.5mps. All wind data are based on rawin observations.

Chart XIII 500-mb Surface, 1200 GMT, April 1970. Average Height and Temperature, and Resultant Winds



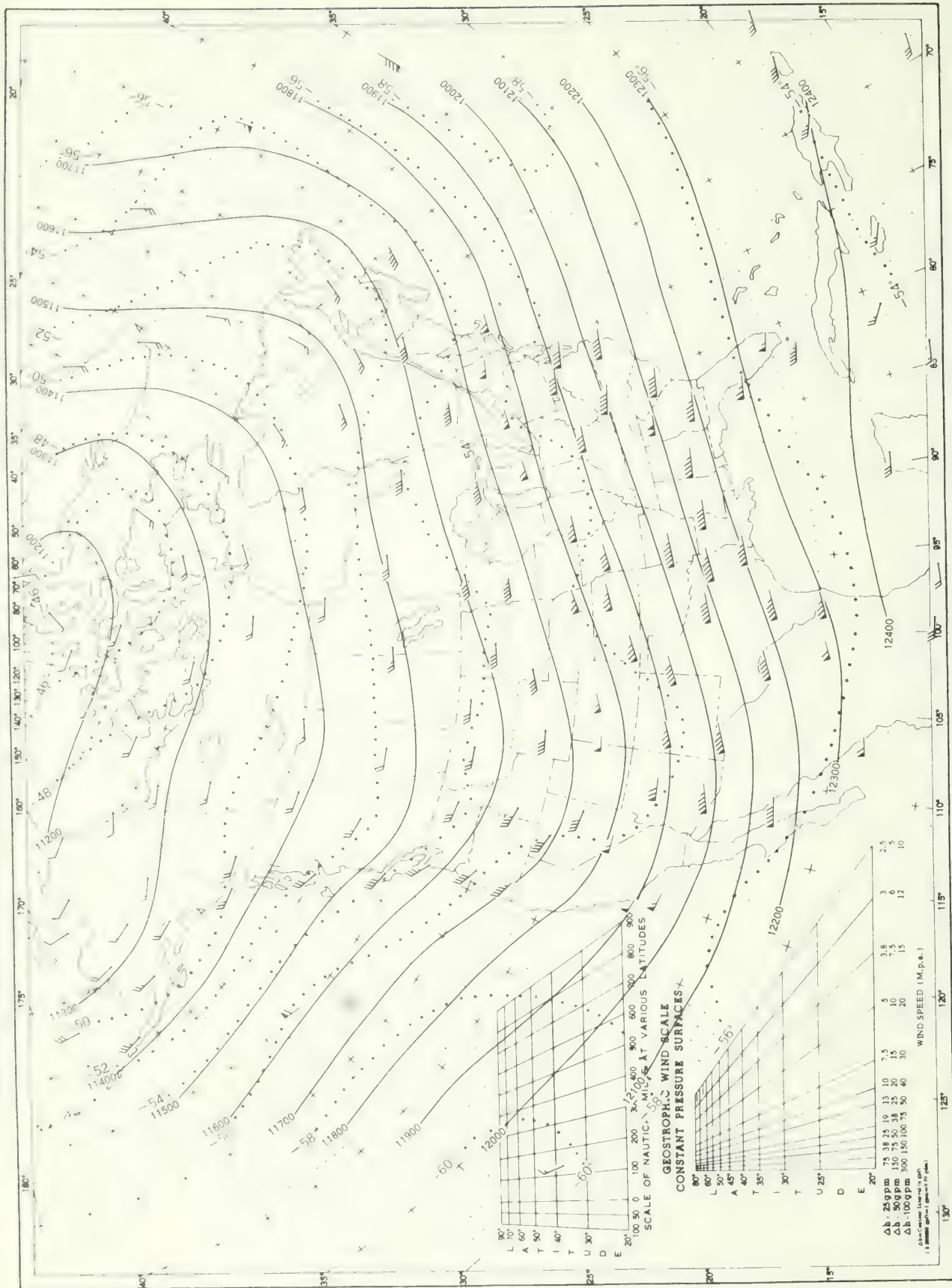
Height in geopotential meters (1 g.p.m. = 0.98 dynamic meters). Temperature in °C. Wind speed in meters per second; flag represents 25 mps, full feather 5 mps, and half feather 2.5 mps. All wind data are based on rawin observations.

Chart XIV 300-mb Surface, 1200 GMT, April 1970. Average Height and Temperature, and Resultant Winds

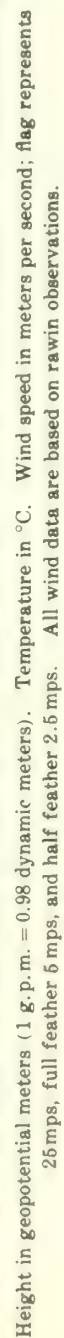


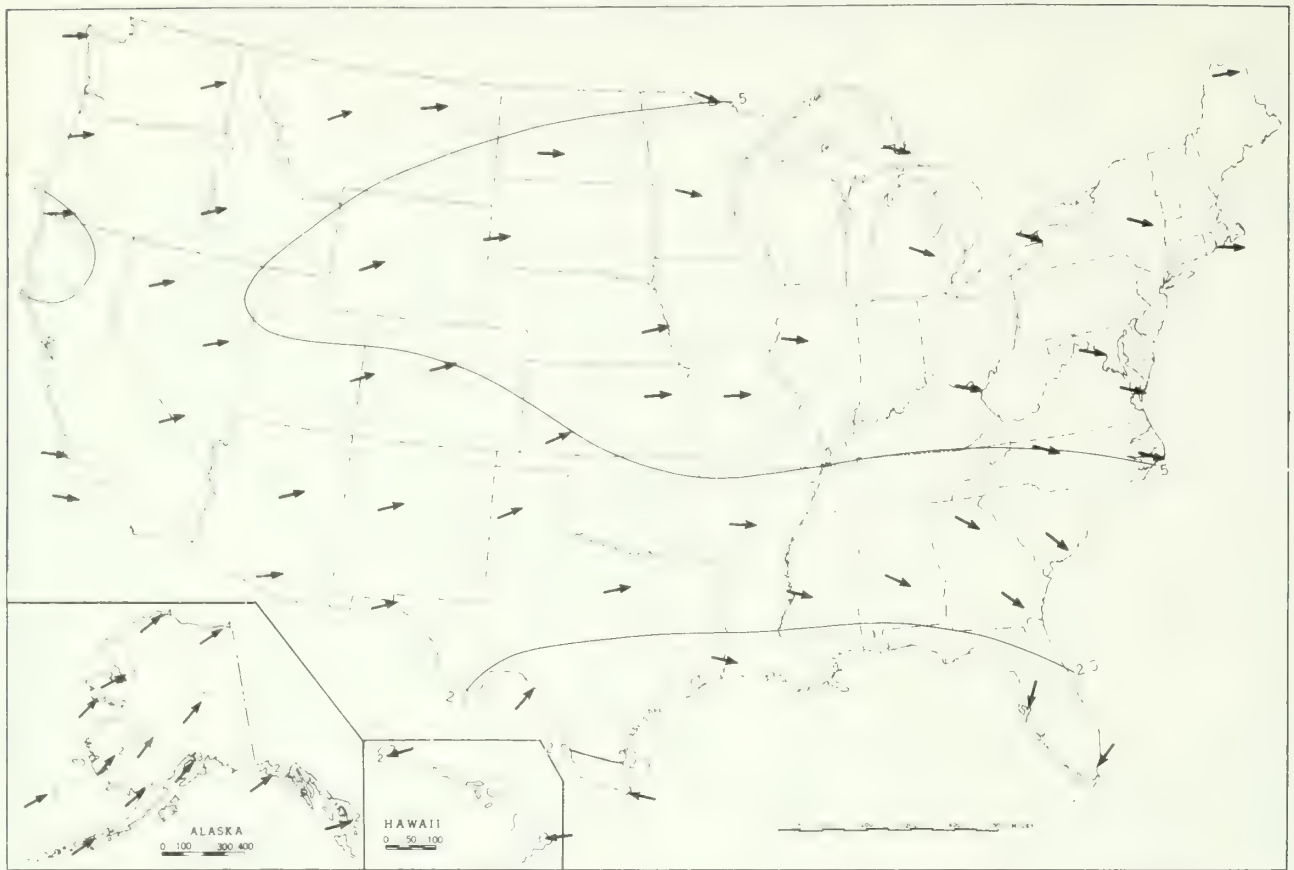
Height in geopotential meters (1 g.p.m. = 0.98 dynamic meters). Temperature in °C. Wind speed in meters per second; flag represents 25mps, full feather 5mps, and half feather 2.5 mps. All wind data are based on rawin observations.

Chart XV 200 mb Surface, 1200 GMT, April 1970. Average Height and Temperature, and Resultant Winds

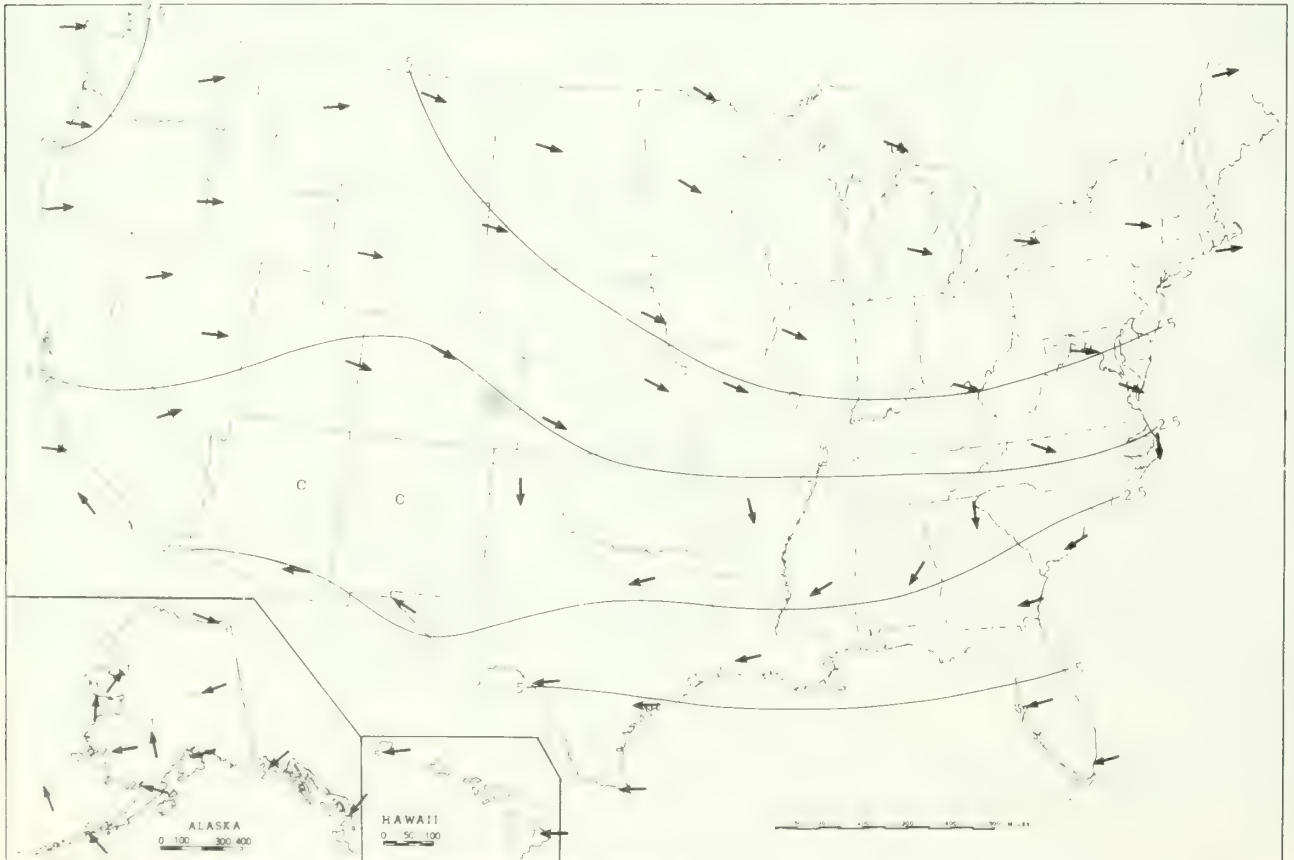


Height in geopotential meters (1 g.p.m. = 0.98 dynamic meters). Temperature in °C. Wind speed in meters per second; flag represents 25 mps, full feather 5 mps, and half feather 2.5 mps. All wind data are based on rawin observations.





B. 30-mb. Surface, 1200 GMT, April 1970. Resultant Winds.



Wind speed (isotachs) in meters per second. Arrows show resultant wind direction. All wind data are based on rawin observations.

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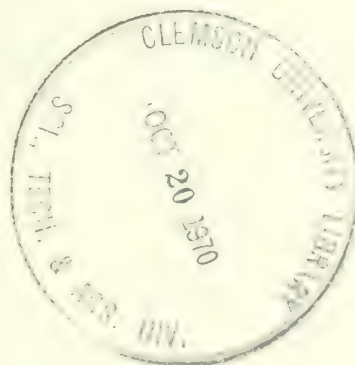




Climatological Data

NATIONAL SUMMARY

U.S. DEPARTMENT OF COMMERCE
Environmental Science Services Administration
Environmental Data Service



MAY

1970

June 21

No. 5

Wilmington, N.C.

1970

C O N T E N T S

| SURFACE DATA | Page |
|---|------|
| General Summary of Weather Conditions----- | 221 |
| Observed Extremes of Temperature and Precipitation - By States----- | 222 |
| Climatological Data - Stations - English Units----- | 223 |
| Climatological Data - Stations - Metric Units----- | 230 |
| Heating Degree Days----- | 237 |
| Cooling Degree Days----- | 238 |
| Storm Summary----- | 239 |
| General Summary of River and Flood Conditions----- | 240 |
| Flood Stage Data----- | 245 |
| UPPER AIR DATA | |
| Rawinsonde Data----- | 248 |
| SOLAR RADIATION DATA | |
| Solar Radiation Intensities----- | 254 |
| Daily Totals and Monthly Averages----- | 255 |
| Net Radiation----- | 257 |
| Solar Ultra-Violet Radiation----- | 257 |
| TOTAL OZONE DATA----- | 257 |
| CHARTS I-XVII----- | 258 |

NOTE: Delayed data and corrections will be carried in the June and December issues of this publication. An explanatory page "Description of Charts" will be carried in the January and July issues.

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CLIMATOLOGICAL DATA

NATIONAL SUMMARY

Volume 21 No. 5

MAY 1970

GENERAL SUMMARY OF WEATHER CONDITIONS

HIGHLIGHTS:

1. Costliest tornado in U. S. history struck Lubbock, Texas, on May 11th.
2. Cool temperatures predominated over the northern and southern borders of the Nation and above-normal temperatures predominated over the interior portions.
3. Snow flurries occurred near Lake Michigan early in May and in northern Minnesota and Upper Michigan near the end of May.

TEMPERATURE.--Temperatures in the first week of May averaged below normal over the western half of the Nation and above normal over the eastern half. The rest of the month was, in general, cooler than normal along the northern and southern borders and warmer than normal from California to the middle Atlantic coast. A large area from eastern Colorado to southern Pennsylvania averaged 3° to 6° warmer than normal.

Early in the month very warm air lay over the eastern third of the Nation with afternoon temperatures near 90° as far north as New York. In contrast, cold air covered the Western States with maxima mostly in the 50's and 60's, and many early morning temperatures below freezing. By the middle of the 1st week, the southwestern deserts had warmed to the 90's. Thermal, California and Phoenix, Arizona, registered 90° on May 4. Meanwhile, northerly breezes cooled the Northeast and southerly breezes warmed the central Great Plains. Subfreezing temperatures on May 7 damaged crops in western New York and western Pennsylvania. At midmonth, cold and hot air masses continued their battle along a series of fronts that stretched from Nevada to New England. Shortly after midmonth, the desert temperatures reached 100° to 109°. This was the warmest weather of the season in much of the West. Most of the Nation experienced above-normal temperatures in the last half of May. The greatest warmth occurred over the central Great Plains. Sioux City, Iowa, registered 96° on the 18th when Marquette, Mich., recorded 88°.

Cooler weather returned to much of the East at the end of the month. Maximums remained in the 70's from New England to the Carolinas on the 29th and 30th. A fresh surge of cool air dropped the maximum temperatures in Nebraska and Kansas from the 80's and low 90's on the 30th to the 60's and low 70's on the 31st.

PRECIPITATION.--Fair weather prevailed over most of the Nation in the first few days of May. The main exceptions were a few thunderstorms in the northern half of the Country in response to weak frontal systems. A few snow flurries with some sleet occurred near Lake Michigan. Stormy weather hit the Northwest near the end of the first week of May. The Southwest remained dry but strong winds kicked up clouds of dust and sand.

Severe storms occurred in the Great Plains in the 2d week of May. Heavy rains fell in the southwest quarter of North Dakota damaging roads, culverts, and small bridges. A score of families at Hebron, N. Dak., were evacuated from their homes because of the flooding. Late on the 9th and early on the 10th, 6 to 10 inches of rain fell in the Tulsa, Okla., vicinity flooding 260 homes. On the evening of the 10th, spherical hail up to 4 inches in diameter fell in Sedgwick and Butler Counties in Kansas and saucer-shaped hail up to 7 to 9 inches in diameter fell in the Wichita, Kans., area, causing damage estimated in the hundreds of thousands of dollars.

On the evening of the 11th, the costliest tornado in U. S. history developed over the southwest part of Lubbock. It plowed through the downtown area crumbling apartment houses and other buildings. It wrecked airplanes and hangers at the Lubbock Municipal Airport. It killed 26 persons, injured at least 500, and caused property damage estimated at \$135 million. Numerous other tornadoes struck mid-America during the 2d and 3d weeks of May. Most of the reports came from Nebraska, Kansas, Iowa, northern Illinois, Indiana and Ohio. Many thunderstorms produced large hail. Torrential rains flooded Joliet, Ill., where some streets became covered with 2 to 3 feet of water. Local showers exceeding 3 1/2 inches caused flash floods in east-central and southeastern Kansas. Woodworth, Ill., received 6 inches in 24 hours and 4 inches of rain fell at Kankakee, Ill. On the 15th, torrential downpours dumped 6 to over 8 inches of rain in the Texas hill country, sent the San Marcos River rampaging, flooding half the city of San Marcos, drowning 2 persons, and causing \$1 million in property losses.

Heavy rains fell from the Great Plains to Pennsylvania in the 4th week of May. Over 5 inches fell at Concordia, Kans., and, on the 23d, spotty heavy showers fell in south-central and southwestern Texas--5.57 inches at Victoria and 8.60 inches at Wharton.

Two tornadoes struck Zapata, Tex., on the 23d, injuring 40 persons and causing \$800,000 property damage. On the 25th, the remnants of the first tropical storm of the season moved through Florida and Georgia producing copious rains along its path.

A cold front produced widespread showers and thunderstorms late in the 4th week of May. On May 26, orange-size hail fell at Laredo, Tex. Flash floods occurred from southeastern South Dakota to Minnesota on the 28th as a result of rains up to 6 inches or so. Tornadoes occurred in several States and at a spot about 40 miles northeast of Amarillo, hail accumulated to 18 inches in depth. Many fields of wheat were totally destroyed.

Wide areas from California to Colorado and western Oklahoma received less than 1 inch of rain in May. Much of the Southwest received no rain or only light sprinkles.

OBSERVED EXTREMES OF TEMPERATURE AND PRECIPITATION -- BY STATES

MAY 1970

| STATE | Temperature | | | | | | Precipitation | | | | |
|----------------|-------------------------|---------------|------|-----------------------|--------------|------|---------------------------|-----------------|-------------------------|-------|--|
| | Monthly extremes | | | | | | Monthly extremes | | | | |
| | Station | Highest
°F | Date | Station | Lowest
°F | Date | Station | Greatest
In. | Station | Least | |
| Alabama | 2 Stations | 99 | 27+ | 2 Stations | 33 | 4 | Mobile WBAP | 8.84 | Brookwood | 0.95 | |
| Alaska | 2 Stations | 76 | 13+ | Barrow WB Airport | -9 | 4 | Little Port Walter | 18.45 | 5 Stations | .00 | |
| Arizona | Casa Grande | 113 | 19 | Hawley Lake | 6 | 1 | Greer | .55 | 127 Stations | .00 | |
| Arkansas | Calico Rock | 96 | 23 | 3 Stations | 33 | 2 | Bentonville 5 WSW | 8.26 | Cove | .55 | |
| California | 3 Stations | 111 | 17 | White Mountain 2 | 9 | 3+ | Klamath | 4.60 | 263 Stations | .00 | |
| Colorado | John Martin Dam | 99 | 20 | 2 Stations | 2 | 2 | Cheyenne Wells | 3.63 | 5 Stations | .00 | |
| Connecticut | Hartford WBAP | 94 | 10 | Falls Village | 20 | 7 | Cockaponset Ranger Sta | 5.67 | Bridgeport WBAP | 2.03 | |
| Delaware | Wilmington 2 WSW | 92 | 23 | Milford 2 WSW | 30 | 7 | Bridgeville 1 NW | 4.19 | Wilmington NCastle WBAP | .94 | |
| Florida | 11 Stations | 95 | 27+ | Fountain 3 SSE | 43 | 5 | Miami 12 SSW | 12.38 | Saint Marks 6 SE | .47 | |
| Georgia | Cordele | 97 | 13 | Blairsville Exp Sta | 31 | 7 | Alapaha Exp Sta | 12.38 | Resaca | 1.33 | |
| Hawaii | Makahuena Point 940.1 | 95 | 24 | Mauna Loa Slope Obs. | 31 | 18+ | Kipa 89.2 | 40.45 | 7 Stations | .00 | |
| Idaho | Kootenai | 94 | 16 | Galena | 9 | 11 | Grangeville 11 SE | 3.54 | Emmett 2 E | .36 | |
| Illinois | Harrisburg | 93 | 23 | 3 Stations | 28 | 6 | Morrison | 12.00 | Paris Waterworks | 1.08 | |
| Indiana | Charlestown Ord Plant | 94 | 21+ | 2 Stations | 27 | 3 | Kentland | 8.42 | Liberty 3 SSE | .93 | |
| Iowa | 2 Stations | 96 | 18 | Sioux Rapids | 24 | 2 | Le Claire L and D 14 | 9.55 | Bartlett 5 E | 1.40 | |
| Kansas | 4 Stations | 99 | 19+ | Tribune 1 W | 26 | 1 | Lillis | 13.35 | Wellington | .19 | |
| Kentucky | 3 Stations | 94 | 26+ | Mammoth Cave Park | 28 | 4 | Taylorsville | 6.49 | Albany 4 N | .83 | |
| Louisiana | Bastrop | 96 | 26+ | 2 Stations | 39 | 4 | Reserve | 9.17 | Saint Joseph Exp Sta | 1.71 | |
| Maine | Sanford 2 NNW | 90 | 11 | Bridgewater | 22 | 25 | Springfield | 5.18 | Sanford 2 NNW | 2.39 | |
| Maryland | 2 Stations | 94 | 23+ | Buttinger 2 NW | 20 | 7 | Pocomoke City 1 S | 5.34 | Aberdeen Phillips Fld | .98 | |
| Massachusetts | Chester 2 | 94 | 10 | 2 Stations | 26 | 8+ | Chester 2 | 7.45 | Nantucket FAA AP | 1.35 | |
| Michigan | Allegan Sewage Plant | 94 | 22 | Champion Van Riper Pk | 14 | 6 | Beechwood 7 WNW | 8.54 | Boyne Falls | 1.40 | |
| Minnesota | Springfield 1 NW | 95 | 18 | Isabella 1 W | 19 | 2 | Wabasha | 9.54 | Red Lake Indian Agency | 1.42 | |
| Mississippi | 3 Stations | 96 | 25+ | 5 Stations | 36 | 4 | Lafayette Springs | 8.68 | Elliott | .65 | |
| Missouri | Kennett Radio KBOA | 97 | 23 | 3 Stations | 28 | 2 | Boonville Waterworks | 11.85 | Caruthersville | 1.54 | |
| Montana | 2 Stations | 92 | 18+ | Jackson | 10 | 10+ | Biddle | 8.02 | Simpson 6 NW | .54 | |
| Nebraska | Stapleton 5 SSE | 103 | 18 | Agate 3 E | 20 | 2 | Falls City | 9.65 | 2 Stations | .66 | |
| Nevada | Sunrise Manor Las Vegas | 105 | 18+ | Pequop | 10 | 1 | Owyhee | 1.92 | 25 Stations | .00 | |
| New Hampshire | Concord WBAP | 93 | 10 | Mount Washington | 9 | 7 | Mount Washington | 8.36 | North Stratford | 1.72 | |
| New Jersey | Hammonton 2 NNW | 95 | 11 | 2 Stations | 26 | 8+ | Plainfield | 4.94 | Sandy Hook | 1.33 | |
| New Mexico | Animas | 101 | 18 | Red River | 2 | 2 | Maljamar | 3.60 | 21 Stations | .00 | |
| New York | New York Laurel Hill | 96 | 10 | Arcade | 17 | 7 | Little Valley | 7.17 | Indian Lake 2 SW | 1.51 | |
| North Carolina | Wilmington 7 N | 97 | 15 | 2 Stations | 27 | 7 | Randleman | 5.45 | Nashville | .99 | |
| North Dakota | Linton | 93 | 17 | Portal | 16 | 1 | Enderlin | 7.46 | Pettibone | 1.27 | |
| Ohio | Ironton | 95 | 24 | Warren 3 S | 20 | 7 | Columbus Valley Cross | 7.15 | Eaton | 1.12 | |
| Oklahoma | Buffalo | 102 | 11 | 2 Stations | 27 | 1 | Spavinaw | 7.28 | Woodward | .07 | |
| Oregon | Ilwaco | 96 | 31 | Crater Lake NP HQ | 10 | 11 | Canary | 5.99 | Redmond 2 W | .04 | |
| Pennsylvania | Phila 10th Chestnut | 94 | 10 | Clermont 4 NW | 15 | 7 | Ridgway | 5.90 | Berne | 1.34 | |
| Puerto Rico | Dos Bocas, P.R. | 94 | 28+ | Cerro Maravilla, P.R. | 54 | 16+ | Rio Grande El Verde, P.R. | 23.09 | Mona Island, P.R. | .63 | |
| Rhode Island | Providence WBAP | 90 | 10 | North Scituate 4 W | 29 | 7 | North Scituate 4 W | 3.73 | Block Island WBAP | 1.69 | |
| South Carolina | Andrews | 108 | 14 | Ninety Nine Islands | 35 | 7 | Blackville 3 W | 9.40 | Dillon 4 SW | 1.44 | |
| South Dakota | 4 Stations | 95 | 18+ | Deerfield 4 NW | 17 | 15 | Deadwood | 7.21 | Philip | .66 | |
| Tennessee | Woodbury 1 WNW | 97 | 24 | Mountain City No 2 | 26 | 7 | Murfreesboro 5 N | 6.25 | Rogersville 1 NE | .04 | |
| Texas | Candelaria | 105 | 31 | Cornudas Service Sta | 25 | 3 | Danevang 2 SE | 15.55 | 3 Stations | .00 | |
| Utah | Hanksville | 97 | 17 | 2 Stations | 11 | 11+ | Pine View Dam | 3.55 | 14 Stations | .00 | |
| Vermont | Vernon | 92 | 11 | Mount Mansfield | 16 | 7 | Mays Mill | 4.83 | Danville | 2.31 | |
| Virginia | 2 Stations | 105 | 22+ | Burkes Garden | 23 | 7 | Free Union | 5.73 | Rocky Knob | .56 | |
| Washington | 2 Stations | 94 | 25 | Rainier Paradise RS | 16 | 11 | Point Grenville | 4.79 | 3 Stations | T | |
| West Virginia | Cairo 3 S | 98 | 21 | 2 Stations | 18 | 7 | Alpena 1 NW | 4.98 | Union | .30 | |
| Wisconsin | Crivitz High Falls | 94 | 22 | Breed | 15 | 6 | Stratford 2 NNW | 9.83 | Blue Mounds 5 S | 2.58 | |
| Wyoming | Terrington Exp Farm | 92 | 20+ | Foxpark | -2 | 1 | Recluse 14 NNW | 6.87 | Pavillion | T | |

CLIMATOLOGICAL DATA

ENGLISH UNITS

MAY 1970

| State and Station | Pressure | | Temperature | | | | | Precipitation | | | | | Wind | | | | | No. of days (sunrise to sunset) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | Elevation (ground) | Station Q | Sea level | Average maximum | Average minimum | Average | Departure from normal | Highest | Date | Lowest | No. of days | | Total | With thunderstorms | Snow, Sleet | Resultant speed | Resultant direction | | | Speed | Direction | Fastest mile | Date | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | Max. 90 F. or above | Min. 32 F. or below | | | | | | In. | In. | | | | | In. | Mph. | Mph. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ALABAMA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

CLIMATOLOGICAL DATA

ENGLISH UNITS

MAY 1972

| State and Station | Pressure | | | Temperature | | | | | | | Precipitation | | | | | Wind | | | | No. of days
(sunrise to sunset) | | Possible sunshine
(sunrise to sunset) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------|--------------|-----------|-----------------|-----------------|---------|----|----|-----------------------|----|---------|---------------|------|-------------|----|-------|-----------------------|----------------------|------------------|--------------------|------------------------------------|----|--|-------------|----|-----------------|---------------------|--------------|-----------|------|------------|--------------------|--------------|-------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| | Station
O | Sea level | Average maximum | Average minimum | Average | | | Departure from normal | | Highest | Lowest | Date | No. of days | | Total | Departure from normal | Greatest in 24 hours | 0.1 inch or more | With thunderstorms | | | | Snow, Sleet | | Resistant speed | Resistant direction | Fastest mile | Direction | Date | Clear, 0-3 | Partly cloudy, 4-7 | Cloudy, 8-10 | Sky cover, tenths | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | F | °F | °F | °F | °F | | | | °F | °F | | | | | | °F | °F | | °F | °F | | | | | | | | | | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F |

See footnotes at end of table

CLIMATOLOGICAL DATA

ENGLISH UNITS

MAY 1970

| State and Station | Pressure | | Temperature | | | | | | Precipitation | | | | Wind | | | No. of days (sunrise to sunset) | | Sky cover, tenths (sunrise to sunset) | | | | | | | | | | | | | | |
|--------------------|-----------|-----------|-----------------|-----------------|---------|-----------------------|---------|--------|---------------|----------------------|-------------|-------------|--------------|-----------|--------|---------------------------------|--------------------|---------------------------------------|--------------|-------|-----|-----------------------|----------------------|--------------------|-------|-------------------------|-----------------|---------------------|----------------------|----------------------|-------------------|---------------------------|
| | Station Q | Sea level | Average maximum | Average minimum | Average | Departure from normal | Date | | No. of days | Greatest in 24 hours | No. of days | Snow, Sleet | Fastest mile | Direction | Date | Clear, 0-3 | Partly cloudy, 4-7 | | Cloudy, 8-10 | | | | | | | | | | | | | |
| | | | | | | | Highest | Lowest | | | | | | | | | | | | Total | In. | Departure from normal | Greatest in 24 hours | With thunderstorms | Total | Maximum depth on ground | Resultant speed | Resultant direction | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Max. 90° F. or above | Min. 32° F. or below | Average dew point | Average relative humidity |
| Elevation (ground) | Mb. | Mb. | F. | F. | F. | F. | F. | F. | F. | In. | In. | In. | M.p.h. | M.p.h. | M.p.h. | M.p.h. | M.p.h. | M.p.h. | | | | | | | | | | | | | | |
| INDIANA | 381 | 1004.7 | 1018.6 | 80 | 57 | 68.4 | 1.6 | 89 | 28+ | 38 | 3 | 0 | 0 | 55 | 65 | 3.33 | - 0.86 | 1.96 | 7 | 3 | 0.0 | 0 | 3.2 | 19 | 30 | S | 9 | 12 | 10 | 9 | 4.9 | |
| | 791 | 988.8 | 1018.5 | 74 | 52 | 63.2 | 2.5 | 87 | 22 | 33 | 6 | 0 | 0 | 51 | 66 | 3.74 | 0.01 | 1.14 | 11 | 6 | 0.0 | 0 | 6.2 | 23 | 52 | SW | 15 | 7 | 10 | 14 | 6.0 | |
| | 792 | 989.5 | 1018.5 | 78 | 54 | 65.6 | 4.2 | 89 | 24 | 34 | 3 | 0 | 0 | 54 | 67 | 2.43 | - 1.56 | 0.70 | 11 | 7 | 0.0 | 0 | 4.2 | 22 | 35 | SW | 1 | 10 | 9 | 12 | 5.5 | |
| | 773 | 989.5 | 1017.4 | 71 | 51 | 61.0 | 2.3 | 87 | 22 | 31 | 6 | 0 | 1 | 52 | 73 | 3.35 | - 0.27 | 1.44 | 11 | 9 | 0.0 | 0 | 5.2 | 21 | 28 | 23 | 1 | 7 | 6 | 18 | 6.5 | |
| | 692 | | | 76 | 54 | 65.1 | 3.3 | 86 | 22+ | 33 | 2 | 0 | 0 | 54 | 65 | 2.99 | - 1.04 | 1.06 | 10 | 9 | 0.0 | 0 | 5.5 | 21 | 25 | 35 | 13 | 11 | 5 | 15 | 5.7 | |
| IOWA | 938 | 980.4 | 1014.9 | 77 | 55 | 65.8 | 5.2 | 91 | 22 | 31 | 2 | 1 | 1 | 51 | 62 | 4.21 | 0.14 | 2.71 | 15 | 9 | 0.0 | 0 | 4.5 | 20 | 38 | NW | 22 | 10 | 7 | 14 | 5.8 | |
| | 1056 | 976.6 | | 73 | 51 | 61.6 | 3.5 | 89 | 22 | 31 | 2 | 0 | 1 | 52 | 64 | 5.24 | 1.02 | 1.73 | 16 | 9 | 0.0 | 0 | 4.5 | 20 | 38 | NW | 22 | 10 | 7 | 14 | 5.8 | |
| | 1095 | 973.6 | 1013.1 | 78 | 53 | 65.4 | 4.0 | 96 | 18 | 30 | 2 | 5 | 1 | 51 | 64 | 3.04 | - 0.19 | 1.06 | 9 | 9 | 1 | 1 | 1.5 | 19 | 44 | NW | 3 | 10 | 6 | 15 | 6.2 | |
| | 868 | 983.1 | 1014.8 | 73 | 51 | 61.6 | 1.7 | 90 | 22+ | 30 | 2 | 2 | 1 | 49 | 67 | 7.24 | 3.50 | 1.96 | 16 | 9 | 0.0 | 0 | 4.0 | 19 | 31 | 29 | 25 | 9 | 8 | 14 | 6.4 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| KANSAS | 1470 | 960.7 | 1012.8 | 81 | 55 | 67.9 | 4.8 | 92 | 12 | 33 | 2 | 4 | 0 | 54 | 65 | 9.74 | 5.85 | 5.15 | 11 | 11 | 0.0 | 0 | 5.5 | 18 | 35 | NW | 30 | 12 | 9 | 10 | 5.2 | |
| | 2582 | 923.5 | 1012.6 | 82 | 54 | 68.2 | 4.5 | 95 | 12 | 34 | 1 | 5 | 0 | 45 | 49 | 0.81 | - 2.41 | 0.37 | 6 | 6 | 0.0 | 0 | 5.1 | 19 | 40 | S | 19 | 12 | 8 | 11 | 5.2 | |
| | 3654 | 886.9 | 1011.9 | 78 | 46 | 62.3 | 3.8 | 93 | 19 | 27 | 1 | 4 | 2 | 43 | 56 | 2.27 | - 0.14 | 1.01 | 9 | 10 | 0.0 | 0 | 2.1 | 22 | 35 | 18 | 27 | 8 | 10 | 13 | 5.3 | |
| | 877 | 983.1 | 1014.5 | 80 | 56 | 68.1 | 3.7 | 88 | 12 | 35 | 2 | 0 | 0 | 56 | 68 | 5.46 | 1.08 | 1.07 | 12 | 11 | 0.0 | 0 | 5.8 | 19 | 34 | S | 7 | 8 | 10 | 13 | 6.7 | |
| | 1321 | 966.8 | 1014.0 | 82 | 57 | 69.3 | 3.3 | 91 | 20 | 36 | 2 | 3 | 0 | 53 | 60 | 1.58 | - 2.39 | 0.64 | 7 | 5 | 0.0 | 0 | 8.2 | 20 | 34 | S | 7 | 11 | 9 | 11 | 5.3 | |
| KENTUCKY | 869 | 988.2 | 1019.4 | 79 | 54 | 66.8 | 4.3 | 91 | 25+ | 36 | 3 | 2 | 0 | 52 | 61 | 1.88 | - 1.71 | 1.03 | 10 | 7 | 0.0 | 0 | 4.1 | 22 | 26 | 22 | 9 | 11 | 9 | 11 | 5.5 | |
| | 966 | 984.8 | 1020.0 | 77 | 56 | 66.5 | 2.0 | 88 | 25 | 39 | 4 | 0 | 0 | 53 | 64 | 3.18 | - 0.67 | 1.25 | 12 | 7 | 0.0 | 0 | 3.2 | 20 | 20 | 24 | 13+ | 14 | 8 | 9 | 4.9 | |
| | 477 | 1001.4 | 1019.0 | 79 | 56 | 67.2 | 2.8 | 89 | 24 | 40 | 4 | 0 | 0 | 56 | 68 | 1.85 | - 2.05 | 0.45 | 12 | 7 | 0.0 | 0 | 3.1 | 21 | 35 | NW | 25 | 13 | 8 | 10 | 5.1 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LOUISIANA | 92 | 1013.9 | 1018.4 | 84 | 59 | 71.5 | - 1.4 | 89 | 29+ | 41 | 4 | 0 | 0 | 60 | 73 | 3.70 | - 1.84 | 2.33 | 9 | 7 | 0.0 | 0 | 2.2 | 13 | 23 | 19 | 31+ | 5 | 21 | 5 | 5.5 | |
| | 62 | 1014.9 | 1017.7 | 84 | 63 | 73.4 | - 1.4 | 90 | 29 | 45 | 4 | 1 | 0 | 62 | 73 | 5.21 | 0.41 | 3.16 | 8 | 5 | 0.0 | 0 | 3.3 | 10 | 30 | 12 | 27 | 7 | 13 | 11 | 6.0 | |
| | 9 | 1016.3 | 1017.3 | 84 | 65 | 74.1 | - 1.5 | 90 | 26 | 50 | 4 | 1 | 0 | 63 | 74 | 7.11 | 2.50 | 2.23 | 11 | 14 | 0.0 | 0 | 3.7 | 11 | 23 | 8 | 20 | 6 | 15 | 6.5 | | |
| | 4 | 1016.9 | 1017.9 | 84 | 65 | 74.2 | - 0.2 | 90 | 29 | 51 | 5 | 1 | 0 | 65 | 75 | 4.68 | 0.30 | 2.01 | 8 | 4 | 0.0 | 0 | 3.6 | 10 | 22 | 11 | 20 | 12 | 11 | 8 | 5.0 | |
| | 254 | 1008.1 | 1017.3 | 84 | 62 | 72.7 | - 0.4 | 90 | 21+ | 48 | 4 | 2 | 0 | 60 | 68 | 4.36 | - 0.43 | 2.18 | 9 | 5 | 0.0 | 0 | 3.0 | 16 | 37 | 13 | 26 | 10 | 13 | 8 | 5.4 | |
| MAINE | 624 | | | 60 | 41 | 50.6 | 0.7 | 80 | 30+ | 28 | 25 | 0 | 2 | 45 | 69 | 4.26 | - 1.23 | 0.95 | 19 | 4 | 1 | 1 | 1.9 | 20 | 31 | S | 17 | 7 | 9 | 15 | 6.5 | |
| | 43 | 1015.6 | 1018.0 | 65 | 47 | 55.7 | 2.7 | 85 | 22 | 39 | 30+ | 0 | 0 | 45 | 69 | 3.15 | - 0.26 | 2.04 | 10 | 4 | 0.0 | 0 | 3.0 | 19 | 27 | SW | 1 | 5 | 21 | 7.7 | 7.2 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MARYLAND | 141 | 1014.2 | 1019.9 | 79 | 55 | 66.6 | 2.2 | 93 | 23 | 33 | 7 | 6 | 0 | 52 | 62 | 1.69 | - 2.29 | 0.69 | 9 | 4 | 0.0 | 0 | 1.7 | 25 | 34 | NW | 23 | 11 | 12 | 8 | 4.3 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MASSACHUSETTS | 629 | | | 68 | 48 | 58.1 | 1.4 | 90 | 10 | 33 | 7 | 1 | 0 | 47 | 67 | 4.42 | 0.94 | 1.98 | 12 | 3 | 0.0 | 0 | 1.9 | 20 | 31 | N | 6 | 7 | 9 | 15 | 6.5 | |
| | 15 | 1017.3 | 1018.3 | 68 | 51 | 59.6 | 0.8 | 92 | 10 | 38 | 7 | 0 | 2 | 47 | 67 | 3.01 | - 0.33 | 1.61 | 10 | 2 | 0.0 | 0 | 1.9 | 20 | 31 | S | 17 | 7 | 9 | 15 | 6.5 | |
| | 986 | 982.1 | 1019.1 | 68 | 46 | 56.9 | 1.7 | 87 | 10 | 28 | 7 | 0 | 2 | 41 | 59 | 4.18 | - 0.39 | 2.08 | 12 | 3 | 1 | 1 | 3.7 | 26 | 25 | 28 | 17+ | 10 | 4 | 17 | 6.3 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MICHIGAN | 689 | 992.2 | 1017.5 | 62 | 41 | 51.7 | 1.1 | 90 | 21 | 25 | 6 | 1 | 3 | 42 | 70 | 1.99 | - 0.92 | 0.55 | 16 | 6 | 0.2 | 0 | 0.8 | 17 | 32 | SW | 1 | 3 | 7 | 21 | 8.0 | |
| | 619 | | | 71 | 52 | 61.2 | 2.2 | 88 | 19 | 35 | 6 | 0 | 0 | 48 | 54 | 2.89 | - 0.64 | 0.97 | 11 | 5 | 0.0 | 0 | 3.6 | 24 | 29 | 27 | 25+ | 7 | 8 | 16 | 6.5 | |
| | 633 | 993.6 | 1017.7 | 72 | 50 | 60.9 | 3.3 | 85 | 22+ | 33 | 7 | 0 | 0 | 49 | 67 | 3.01 | - 0.53 | 1.10 | 11 | 7 | 1 | 1 | 3.9 | 23 | 40 | SW | 1 | 5 | 8 | 16 | 6.5 | |
| | 771 | 989.5 | 1017.2 | 68 | 48 | 58.3 | 1.9 | 84 | 21 | 31 | 3 | 0 | 2 | 48 | 70 | 2.55 | - 0.84 | 0.52 | 13 | 6 | 1 | 1 | 4.4 | 22 | 31 | 21 | 1 | 5 | 8 | 18 | 7.1 | |
| | 784 | 988.2 | 1017.1 | 70 | 49 | 59.4 | 2.6 | 86 | 21 | 27 | 6 | 0 | 2 | 49 | 68 | 4.24 | - 0.78 | 1.57 | 12 | 5 | 0.0 | 0 | 4.2 | 21 | 40 | SW | 1 | 7 | 17 | 17 | 6.8 | |
| MINNESOTA | 1149 | 975.3 | 1017.5 | 64 | 44 | 53.9 | 1.6 | 82 | 21 | 26 | 6 | 0 | 4 | 44 | 72 | 2.67 | - 0.26 | 0.66 | 15 | 9 | 1 | 1 | 1.9 | 22 | 32 | 23 | 1 | 6 | 5 | 20 | 7.6 | |
| | 841 | 985.8 | 1017.4 | 69 | 46 | 58.6 | 1.5 | 83 | 21 | 29 | 6+ | 2 | 4 | 49 | 70 | 2.89 | - 0.84 | 0.96 | 9 | 7 | 0.0 | 0 | 5.1 | 22 | 38 | SW | 1 | 5 | 9 | 17 | 6.6 | |
| | 677 | | | 55 | 35 | 47.0 | - 2.9 | 88 | 18 | 30 | 6 | 0 | 2 | 46 | 67 | 4.86 | 1.90 | 1.98 | 17 | 8 | 1.6 | 1 | 4.7 | 20 | 37 | SW | 18 | 1 | 11 | 19 | 8.3 | |
| | 625 | 993.9 | 1016.8 | 68 | 49 | 58.4 | 2.6 | 88 | 29 | 30 | 6 | 0 | | | | | | | | | | | | | | | | | | | | |

ENGLISH UNITS

See footnotes at end of table

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See footnotes at end of table

ENGLISH UNITS

MAY 1970

See footnotes at end of table

ENGLISH UNITS

See footnotes at end of table

CLIMATOLOGICAL DATA

ENGLISH UNITS

MAY 1970

| State and Station | Pressure | | Temperature | | | | | | Precipitation | | | | Wind | | | | No. of days (sunrise to sunset) | | | | | | | | | | | | | | |
|-------------------|----------------|-----------|-----------------|-----------------|-----------------------|------|------|----|---------------|----|---------------------------|-------|-----------------------|----------------------|-------------|-------|---------------------------------|------|-------------|--------|-----------------|---------------------|--------------|------|------------|--------------------|--------------|---------------------------------------|------|----------------------|----------------------|
| | Station Q | Sea level | Average maximum | Average minimum | Departure from normal | | Date | | No. of days | | Average relative humidity | Total | Departure from normal | Greatest in 24 hours | No. of days | | | | Snow, Sleet | Total | Resultant speed | Resultant direction | Fastest mile | | | | | | | | |
| | | | | | F. | F. | F. | F. | F. | F. | | | | | F. | F. | In. | In. | | | | | In. | In. | M.p.h. | M.p.h. | M.p.h. | Direction | Date | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Max. 90° F. or above | Min. 32° F. or below |
| VIRGINIA | 916 | Mb. | F. | F. | F. | F. | F. | F. | F. | F. | F. | % | In. | In. | In. | In. | In. | In. | In. | M.p.h. | M.p.h. | M.p.h. | Direction | Date | Clear, 0-3 | Partly cloudy, 4-7 | Cloudy, 8-10 | Sky cover, tenths (sunrise to sunset) | % | | |
| | LYNCHBURG | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 22 | 1019.0 | 1019.9 | 76 | 59 | 67.5 | 0.0 | 89 | 23 | 48 | 8+ | 0 | 56 | 69 | 2.58 | -1.09 | 0.90 | 4 | 0.0 | 0 | 1.8 | NE | 27+ | 14 | 6 | 11 | 4.8 | 67 | | | |
| | 164 | 1013.9 | 1019.8 | 82 | 57 | 69.1 | 2.1 | 94 | 24 | 37 | 7 | 7 | 0 | 56 | 67 | 2.58 | -0.78 | 1.43 | 4 | 0.0 | 0 | 3.1 | NE | 29 | 14 | 8 | 9 | 4.8 | 82 | | |
| | 1149 | 978.3 | 1019.9 | 79 | 54 | 66.8 | 1.1 | 91 | 24 | 33 | 7 | 2 | 0 | 52 | 62 | 1.51 | -1.88 | 0.65 | 6 | 0.0 | 0 | 0.7 | 29 | NW | 17 | 13 | 9 | 9 | 4.9 | | |
| MALLOPS ISLAND | 9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | WALLOPS ISLAND | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | WASHINGTON | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | OLYMPIA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | QUILLABUTE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| WEST VIRGINIA | 2504 | 933.0 | 1020.3 | 73 | 50 | 61.6 | 0.8 | 84 | 22 | 28 | 7 | 0 | 1 | 48 | 65 | 1.36 | -2.77 | 0.72 | 9 | 0.0 | 0 | 3.5 | 23 | 40 | 29 | 13 | 9 | 10 | 12 | 5.8 | |
| | CHARLESTON | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | ELKINS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1948 | 948.9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 827 | 989.5 | 1019.4 | 78 | 54 | 65.7 | 1.1 | 90 | 25 | 30 | 7 | 1 | 1 | 54 | 68 | 1.45 | -3.12 | 0.93 | 7 | 0.0 | 0 | 2.5 | 22 | 28 | 26 | 13 | 8 | 14 | 9 | 5.4 | |
| WISCONSIN | 615 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PARKERSBURG U | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | GREEN BAY | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | LA CROSSE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 651 | 990.5 | 1014.8 | 71 | 51 | 60.6 | 1.4 | 92 | 21 | 34 | 6 | 1 | 0 | 50 | 72 | 2.06 | -2.75 | 1.84 | 15 | 0 | 0 | 2.1 | 17 | | | | | | | | |
| WYOMING | 858 | 984.1 | 1015.6 | 70 | 47 | 58.5 | 2.4 | 87 | 21 | 25 | 6 | 0 | 1 | 48 | 71 | 2.75 | 0.25 | 1.20 | 18 | 9 | 0 | 3.5 | 20 | 34 | 9 | 7 | 0 | 16 | 6.6 | 55 | |
| | 672 | 991.2 | 1016.5 | 66 | 46 | 56.0 | 2.6 | 87 | 21 | 31 | 6 | 0 | 2 | 46 | 71 | 3.41 | 0.25 | 1.20 | 15 | 6 | 0 | 2.5 | 23 | 42 | SW | 1 | 7 | 7 | 17 | 6.8 | 51 |
| | CASPER | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 5338 | 837.5 | 1014.3 | 68 | 39 | 53.3 | 0.2 | 81 | 17 | 27 | 1 | 0 | 4 | 36 | 59 | 2.03 | 0.00 | 0.70 | 11 | 9 | 1.7 | 4.4 | 28 | 35 | 30 | 9 | 4 | 14 | 13 | 6.5 | 80 |
| | 6126 | 812.4 | 1013.8 | 68 | 40 | 54.3 | 1.4 | 82 | 18 | 25 | 1 | 0 | 4 | 32 | 50 | 3.13 | 0.61 | 1.45 | 11 | 12 | T | 5.0 | 30 | 44 | NW | 15 | 6 | 16 | 9 | 5.8 | 76 |
| LANDER | 5963 | 829.3 | 1014.0 | 69 | 40 | 54.3 | 1.4 | 83 | 17 | 26 | 1 | 0 | 6 | 31 | 47 | 0.49 | -2.16 | 0.25 | 5 | 3 | T | 2.2 | 26 | 54 | W | 27 | 6 | 10 | 15 | 6.8 | 76 |
| | 5964 | 878.8 | 1015.4 | 67 | 40 | 53.6 | 0.0 | 85 | 17 | 30 | 2+ | 0 | 4 | 39 | 62 | 5.20 | 2.63 | 1.33 | 14 | 5 | 2.0 | 4.8 | 31 | 37 | SW | 11 | 6 | 12 | 13 | 6.6 | 62 |

Data from airport unless otherwise specified. U indicates Urban, R indicates Rural, sites.

Precipitation data in column headed "Greatest in 24 hours" are computed on a 24-hour basis without regard to calendar day - data may include precipitation with a measurable amount from the last day of the previous month or the first day of the following month.

Wind directions under resultant direction are in tens of degrees.

Value entered in column "Fastest Mile" is the highest observed 1-minute wind speed when the direction is in tens of degrees. These stations are not equipped with a recording anemometer from which "Fastest Mile" data can be evaluated.

B Number of days maximum 70°F. or above for Alaskan Stations.

Y Peak Gust.

+ And also on an earlier date or dates.

Ø Station pressures apply to elevations shown in the "Elevations - Station Pressure" table of the annual issue of this publication.

METRIC UNITS

MAY 1976

| State and Station | Pressure | | | Temperature | | | | | | No. of days | | | | Precipitation | | | | Wind | | | | No. of days
survive to
sunset | | | | | | | | | | | | |
|-------------------|-----------------|--------------|-----------|-----------------|-----------------|---------------|------|-----------------------|---------------|--------------|----------------------|--------------------|--------------|------------------------------|-----------------------------|----------------|------------|---------------------|-----------------|-----------|------|-------------------------------------|--------------------|----------------------------|------|------|------|----|----|----|-----|-----|-----|--|
| | Elevation
ft | Station
O | Sea level | Average maximum | Average minimum | Average
C. | C. | Departure from normal | Highest
C. | Lowest
C. | Date | | Total
Mm. | Departure from normal
Mm. | Greatest in 24 hours
Mm. | No. of
days | Snow Sheet | Resultant direction | Speed
M.p.s. | Direction | Date | | | | | | | | | | | | | |
| | | | | | | | | | | | Max 32.2 °C or above | Min. 0 °C or lower | | | | | | | | | | Average relative humidity
% | With thunderstorms | Maximum depth
on ground | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ALABAMA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BIRMINGHAM | 189 | 997.0 | 1019.4 | 29.4 | 14.4 | 21.8 | 0.4 | 35.0 | 23 | 4.4 | 4 | 7 | 0 | 13.3 | 62 | 78 | -29 | 25 | 7 | 5 | 0 | 0 | 0.8 | 11 | 8.9 | 54 | 28+ | 13 | 9 | 12 | 5.1 | 78 | | |
| HUNTSVILLE | 190 | 997.0 | 1019.7 | 27.8 | 14.4 | 20.9 | -0.4 | 33.3 | 21 | 6.1 | 4 | 4 | 0 | 15.0 | 72 | 58 | -8 | 27 | 9 | 5 | 0 | 0 | 0.9 | 11 | 10.7 | 11 | 30 | 14 | 7 | 10 | 5.0 | | | |
| MOBILE | 64 | 1010.8 | 1018.5 | 30.0 | 18.3 | 24.1 | 0.2 | 34.4 | 26 | 10.0 | 5+ | 5 | 0 | 17.2 | 71 | 225 | 1.1 | 75 | 11 | 6 | 0 | 0 | 2.3 | 11 | 11.6 | 18 | 1 | 7 | 11 | 13 | 6.9 | | | |
| MONTGOMERY | 56 | 1011.9 | 1019.2 | 29.4 | 15.6 | 22.3 | -0.1 | 34.4 | 22 | 7.8 | 5 | 5 | 0 | 15.6 | 70 | 89 | 1 | 40 | 8 | 7 | 0 | 0 | 0.5 | 12 | 15.6 | 6 | 6 | 14 | 7 | 10 | 4.9 | | | |
| ALASKA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ANCHORAGE | 35 | 1006.8 | 1011.8 | 13.3 | 4.4 | 8.9 | 0.4 | 17.8 | 26+ | -0.6 | 4 | 0 | 1 | 1.1 | 59 | 11 | -2 | 11 | 2 | 0 | 0 | 0 | 1.8 | 19 | 13.4 | 15 | 22 | 4 | 13 | 14 | 6.8 | 59 | | |
| ANNETTE | 34 | 1012.9 | 1017.1 | 13.9 | 6.7 | 10.1 | 0.6 | 21.7 | 11 | 3.3 | 3 | 1 | 0 | 6.7 | 82 | 285 | 105 | 52 | 22 | 0 | 0 | 0 | 3.0 | 14 | 13.0 | 14 | 4 | 0 | 8 | 23 | 8.5 | | | |
| BARROW | 9 | 1018.3 | 1019.1 | -5.0 | -9.4 | -7.2 | 0.4 | 3.3 | 30 | -22.8 | 4 | 0 | 31 | -7.8 | 93 | 2 | -1 | 2 | 3 | 0 | 0 | 0 | 2.3 | 178 | 3.4 | 8 | 13 | 4 | 6 | 21 | 7.7 | | | |
| BARTER ISLAND | 12 | 1016.9 | 1018.9 | -3.9 | 9.4 | -6.7 | 0.4 | 5.6 | 31+ | -17.8 | 4 | 0 | 30 | -7.8 | 90 | 3 | -3 | 2 | 3 | 0 | 0 | 0 | 10 | 305 | 3.0 | 9 | 14 | 4 | 5 | 22 | 9.1 | | | |
| BETHEL | 38 | 1006.4 | 1012.0 | 12.2 | 0.6 | 6.3 | 2.4 | 20.0 | 27 | -8.3 | 2 | 0 | 13 | 1.1 | 76 | 33 | 8 | 12 | 9 | 2 | 0 | 0 | 2.5 | 1.6 | 31 | 10.7 | 32 | 8+ | 14 | 5 | 16 | 6.8 | | |
| BETHEL | 196 | 987.5 | 1013.0 | 13.3 | 1.1 | 7.2 | 2.4 | 20.0 | 25 | -7.8 | 3 | 0 | 13 | -0.6 | 59 | 13 | 8 | 5 | 2 | 0 | 0 | 0 | 41 | 76 | 1.3 | 4 | 14.9 | 5 | 10 | 16 | 6.8 | | | |
| BIG DELTA | 386 | 1007.1 | 1010.9 | 15.0 | 2.8 | 8.9 | 0.7 | 23.3 | 12 | -2.8 | 4 | 2 | 7 | 0 | 6 | 19 | -6 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 19 | 11 | 14 | 5 | 14 | 7.3 | | | |
| BLOOMSBURY | 167 | 993.2 | 1010.3 | 16.7 | 2.8 | 4.9 | 0.7 | 11.1 | 30+ | -2.2 | 4 | 2 | 10 | 0.6 | 73 | 32 | -7 | 16 | 17 | 0 | 0 | 0 | 0.4 | 28 | 16.1 | 18 | 19 | 2 | 17 | 29 | 9.5 | | | |
| CALCRANS | 132 | 993.3 | 1010.7 | 17.2 | 6.4 | 11.0 | 2.6 | 23.3 | 12 | -1.1 | 3 | 7 | 0 | -2.8 | 39 | 27 | -7 | 19 | 7 | 2 | 0 | 0 | 0.9 | 36 | 13.0 | 1 | 18+ | 2 | 14 | 17 | 7.4 | | | |
| CHENNAI | 470 | 953.3 | 1010.7 | 15.9 | 0.6 | 6.1 | | 21.7 | 12 | -6.7 | 4 | 2 | 15 | -1.7 | 56 | 29 | -18 | 13 | 8 | 0 | 0 | 0 | 2.1 | 19 | 11.2 | 1 | 9+ | 4 | 11 | 17 | 9.3 | | | |
| CHENNAI | 470 | 953.3 | 1010.7 | 15.9 | 0.6 | 6.1 | | 21.7 | 12 | -6.7 | 4 | 2 | 15 | -1.7 | 56 | 29 | -18 | 13 | 8 | 0 | 0 | 0 | 2.1 | 19 | 11.2 | 1 | 9+ | 4 | 11 | 17 | 9.3 | | | |
| JUNEAU | 6 | 1014.2 | 1014.8 | 11.1 | 3.7 | 7.4 | 0.6 | 16.1 | 10 | -2.8 | 3 | 0 | 2 | 3.9 | 82 | 100 | 17 | 16 | 22 | 0 | 0 | 0 | 0 | 2.8 | 12 | 17.4 | 12 | 4 | 0 | 2 | 29 | 9.5 | 24 | |
| KING SALMON | 15 | 1007.8 | 1009.8 | 12.8 | 1.7 | 7.7 | 0.2 | 20.0 | 31 | -3.3 | 3 | 0 | 2 | 3.9 | 82 | 100 | 17 | 16 | 22 | 0 | 0 | 0 | 0 | 2.8 | 12 | 17.4 | 12 | 4 | 0 | 2 | 29 | 9.5 | | |
| KOTZEBUE | 15 | 1007.8 | 1009.8 | 12.8 | 1.7 | 7.7 | 0.2 | 20.0 | 31 | -3.3 | 3 | 0 | 2 | 3.9 | 82 | 100 | 17 | 16 | 22 | 0 | 0 | 0 | 0 | 2.8 | 12 | 17.4 | 12 | 4 | 0 | 2 | 29 | 9.5 | | |
| KOTZEBUE | 3 | 1013.5 | 1013.9 | 2.8 | -5.0 | -1.3 | 0.7 | 11.7 | 30 | -16.1 | 2 | 0 | 28 | -3.9 | 82 | 1 | -7 | 1 | 1 | 0 | 0 | 0 | 1 | 25 | 2.5 | 27 | 16.5 | 29 | 7 | 10 | 11 | 5.7 | | |
| NOME | 4 | 1012.2 | 1013.1 | 7.2 | -2.2 | -4.5 | 0.8 | 16.1 | 24+ | -12.2 | 5+ | 0 | 16 | -3.3 | 66 | 26 | 4 | 12 | 7 | 0 | 0 | 0 | 1 | 0.6 | 32 | 8.9 | 2 | 14 | 6 | 10 | 15 | 6.5 | | |
| ST. PAUL ISLAND | 37 | 1012.2 | 1013.2 | 9.9 | -1.1 | 3.5 | 0.3 | 8.3 | 29 | -6.7 | 8 | 0 | 21 | -0.6 | 90 | 7 | -11 | 5 | 13 | 0 | 0 | 0 | 18 | 25 | 0.7 | 31 | 10.7 | 31 | 9 | 11 | 11 | 5.6 | 61 | |
| ST. PAUL ISLAND | 37 | 1012.2 | 1013.2 | 9.9 | -1.1 | 3.5 | 0.3 | 8.3 | 29 | -6.7 | 8 | 0 | 21 | -0.6 | 90 | 7 | -11 | 5 | 13 | 0 | 0 | 0 | 18 | 25 | 0.7 | 31 | 10.7 | 31 | 9 | 11 | 11 | 5.6 | 61 | |
| MC GRATH | 105 | 998.3 | 1010.9 | 15.0 | 2.2 | 3.5 | 0.2 | 7.2 | 31 | 0.6 | 31+ | 0 | 0 | -1.1 | 74 | 19 | -14 | 5 | 13 | 0 | 0 | 0 | 33 | 2 | 2.8 | 2 | 13.0 | 36 | 5+ | 1 | 4 | 26 | 8.9 | |
| MC GRATH | 105 | 998.3 | 1010.9 | 15.0 | 2.2 | 3.5 | 0.2 | 7.2 | 31 | 0.6 | 31+ | 0 | 0 | -1.1 | 74 | 19 | -14 | 5 | 13 | 0 | 0 | 0 | 33 | 2 | 2.8 | 2 | 13.0 | 36 | 5+ | 1 | 4 | 26 | 8.9 | |
| MCCURTIS | 732 | 924.8 | 1011.7 | 8.3 | -1.1 | 3.6 | 1.7 | 22.2 | 13 | -3.3 | 2 | 4 | 12 | -1.1 | 53 | 47 | -14 | 12 | 15 | 0 | 0 | 0 | 13 | 9.0 | 1.6 | 24 | 17.9 | 17 | 1 | 1 | 29 | 9.3 | | |
| TALKEETNA | 105 | 998.6 | 1012.0 | 14.4 | -0.6 | 7.5 | 0.4 | 15.6 | 31 | -7.8 | 1 | 0 | 22 | -1.1 | 69 | 13 | -9 | 6 | 0 | 0 | 0 | 0 | 145 | 9.0 | 1.6 | 24 | 11.2 | 20 | 31 | 3 | 15 | 13 | 6.6 | |
| UNALASKA | 5 | 1011.9 | 1012.5 | 6.7 | -0.6 | 2.8 | | 17.2 | 11 | -8.9 | 4 | 2 | 17 | -2.2 | 68 | 41 | 7 | 21 | 7 | 0 | 0 | 0 | 1 | 0.4 | 24 | 9.8 | 23 | 22 | 6 | 9 | 16 | 6.8 | | |
| YAKUTAT | 9 | 1012.5 | 1013.4 | 8.9 | 2.2 | 5.6 | -1.4 | 13.3 | 21 | -2.8 | 3 | 0 | 6 | 3.3 | 86 | 169 | -34 | 44 | 23 | 0 | 0 | 0 | 1 | 1.1 | 15 | 10.3 | 13 | 24 | 0 | 2 | 29 | 9.3 | | |
| ARIZONA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FLAGSTAFF | 2135 | 789.0 | 1015.1 | 21.7 | 1.1 | 11.4 | 0.9 | 27.8 | 18+ | -6.1 | 1 | 0 | 12 | -7.2 | 28 | 1 | -13 | 1 | 0 | 1 | 0 | 0 | 1.7 | 20 | 11.6 | 22 | 6 | 21 | 8 | 2 | 2.8 | 96 | | |
| PHOENIX | 340 | 972.2 | 1010.4 | 35.6 | 17.2 | 26.4 | 2.6 | 42.2 | 17 | 10.6 | 1 | 27 | 0 | 0.0 | 18 | 1 | -3 | 1 | 0 | 1 | 0 | 0 | 0.2 | 23 | 14.3 | NE | 1 | 24 | 4 | 3 | 1.9 | | | |
| TUCSON | 788 | 924.5 | 1010.7 | 32.8 | 15.6 | 24.0 | 0.9 | 38.3 | 18+ | 6.1 | 1 | 20 | 0 | -0.6 | 21 | 1 | -3 | 1 | 0 | 2 | 0 | 0 | 1.3 | 18 | 15.2 | E | 3 | 23 | 5 | 3 | 2.0 | 97 | | |
| WINSLOW | 1432 | 851.7 | 1013.4 | 27.8 | 7.2 | 17.4 | 0.8 | 35.6 | 18 | -3.3 | 2 | 3 | 3 | -5.6 | 23 | 1 | -8 | 1 | 0 | 0 | 0 | 0 | 2.6 | 24 | 17.0 | NE | 18 | 25 | 4 | 6 | 3.1 | | | |
| YUMA | 59 | 1003.4 | 1010.6 | 35.0 | 17.8 | 26.3 | 0.7 | 42.8 | 17 | 10.6 | 1 | 28 | 0 | 4.4 | 27 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1.1 | 21 | 11.6 | N | 14 | 24 | 4 | 5 | 1.9 | 97 | | |
| ARKANSAS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FORT SMITH | 136 | 1000.3 | 1016.9 | 28.9 | 15.0 | 21.8 | 0.8 | 32.8 | 30 | 5.0 | 2 | 1 | 0 | 13.9 | 64 | 20 | -11.4 | 13 | 6 | 5 | 0 | 0 | 0.7 | 20 | 17.9 | NE | 30 | 9 | 11 | 11 | 5.5 | 75 | | |
| LITTLE ROCK | 78 | 1008.5 | 1017.8 | 29.4 | 15.0 | 22.2 | 0.8 | 34.4 | 22 | 6.1 | 3 | 8 | 0 | 14.4 | 66 | 18 | -11.7 | 14 | 5 | 2 | 0 | 0 | 1.4 | 20 | 13.9 | SW | 8 | 8 | 12 | 11 | 5.4 | 79 | | |
| CALIFORNIA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BAKERSFIELD | 145 | 997.3 | 1014.7 | 31.7 | 15.0 | 23.3 | 2.0 | 41.1 | 31 | 7.8 | 11 | 15 | 0 | 4.4 | 32 | 0 | -6 | 0 | 0 | 0 | 0 | 0 | 2.1 | 34 | 10.3 | 31 | 18 | 21 | 9 | 1 | 2.1 | | | |
| BLISS | 1252 | 873.4 | | 28.9 | 7.2 | 17.9 | 0.9 | 34.4 | 17 | -0.6 | 12 | 6 | 1 | 0 | 0 | 0 | -5 | 1 | 0 | 0 | 0 | 0 | 0 | 2.1 | 34 | 10.3 | 31 | 18 | 21 | 9 | 1 | 2.1 | | |
| BLUE CANYON | 1609 | | | 18.3 | 7.8 | 13.0 | 1.8 | 27.2 | 31 | -1.7 | 0 | 3 | 0 | 0 | 0 | 0 | 19 | -59 | 7 | 5 | 0 | 0 | 0 | 2.1 | 34 | 10.3 | 31 | 18 | 21 | 9 | 1 | 2.1 | | |
| EUREKA | 100 | | | 13.9 | 8.3 | 11.3 | 0.4 | 27.2 | 31 | 5.6 | 7 | 0 | 1 | 0 | 0 | 0 | 35 | -20 | 15 | 6 | 0 | 0 | 0 | 2.1 | 34 | 10.3 | 31 | 18 | 21 | 9 | 1 | 2.1 | | |
| FRESNO | 133 | 1003.1 | 1014.7 | 31.1 | 12.2 | 21.6 | 1.4 | 39.4 | 16 | 6.1 | 7 | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.4 | 31 | 11.6 | NW | 19 | 22 | 6 | 11 | 14 | 6.2 | 62 | |
| LONG BEACH | 10 | 1014.6 | 1015.8 | 25.0 | 12.8 | 18.9 | 1.4 | 36.7 | 15 | 9.4 | 8+ | 15 | 0 | 7.2 | 43 | 0 | -8 | 0 | 0 | 0 | 0 | 0 | 2.4 | 31 | 11.6 | NW | 19 | 22 | 6 | 11 | 14 | 6.2 | 62 | |
| LOS ANGELES | 30 | 1014.6 | 1015.8 | 25.0 | 12.8 | 18.9 | 1.4 | 36.7 | 15 | 9.4 | 8+ | 15 | 0 | 7.2 | 43 | 0 | -8 | 0 | 0 | 0 | 0 | 0 | 2.4 | 31 | 11.6 | NW | 19 | 22 | 6 | 11 | 14 | 6.2 | 62 | |
| LOS ANGELES | 30 | 1014.6 | 1015.8 | 25.0 | 12.8 | 18.9 | 1.4 | 36.7 | 15 | 9.4 | 8+ | 15 | 0 | 7.2 | 43 | 0 | -8 | 0 | 0 | 0 | 0 | 0 | 2.4 | 31 | 11.6 | NW | 19 | 22 | 6 | 11 | 14 | 6.2 | 62 | |
| LOS ANGELES | 30 | 1014.6 | 1015.8 | 25.0 | 12.8 | 18.9 | 1.4 | 36.7 | 15 | 9.4 | 8+ | 15 | 0 | 7.2 | 43 | 0 | -8 | 0 | 0 | 0 | 0 | 0 | 2.4 | 31 | 11.6 | NW | 19 | 22 | 6 | 11 | 14 | 6.2 | 62 | |
| LOS ANGELES | 30 | 1014.6 | 1015.8 | 25.0 | 12.8 | 18.9 | 1.4 | 36.7 | 15 | 9.4 | 8+ | 15 | 0 | 7.2 | 43 | 0 | -8 | 0 | 0 | 0 | 0 | 0 | 2.4 | 31 | 11.6 | NW | 19 | 22 | 6 | 11 | 14 | 6.2 | 62 | |
| LOS ANGELES | 30 | 1014.6 | 1015.8 | 25.0 | 12.8 | 18.9 | 1.4 | 36.7 | 15 | 9.4 | | | | | | | | | | | | | | | | | | | | | | | | |

See footnotes at end of table

CLIMATOLOGICAL DATA

METRIC UNITS

MAY 1970

| State and Station | Pressure | | | Temperature | | | | | | | | | | Precipitation | | | | | Wind | | | | No. of days
(sunrise to
sunset) | Possible sunshine
(Sky
cover to tenths) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | Elevation (ground) | Station
O | Sea level | Average maximum | Average minimum | Average | | Departure from normal | Highest | Date | Lowest | Date | No. of days | | Average dew point | Total | Departure from normal | Greatest in 24 hours | 25 mm. or more | With thunderstorms | Snow, Sleet | | | | Resultant speed | Resultant direction | Fastest mile
(1.6 kilometers) | | Direction | Date | Clear, 0-3 | Partly cloudy, 4-7 | Cloudy 8-10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | Maximum | Minimum | | | | | | Total | Minimum | | | | | | | Maximum | on ground | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | Max 32.2 °C or above | Min. 0 °C or lower | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| COLORADO
1873 COLORADO SPRINGS
1610 DENVER
1476 GRAND JUNCTION
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CLIMATOLOGICAL DATA

METRIC UNITS

MAY 1970

| State and Station | Pressure | | Temperature | | | | | | | | | | Precipitation | | | | | Wind | | | | No. of days (sunrise to sunset) | Sky cover, tenths | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | Elevation (ground) | Station | Sea level | Average | | | | | Departure from normal | | | | | Highest | Lowest | Date | | No. of days | Total | Maximum depth on ground | Residual speed | | | Residual direction | Speed | Direction | Date | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | Average maximum | Average minimum | Average | C | F | C | F | C | F | C | | | F | Max 32 °C or above | | | | | | | | | | | Min 0 °C or lower | Average dew point | Average relative humidity | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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sunset | Sky cover
tenths | Possible sunshine | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | | Station
Q | Sea level | Average maximum | | Average minimum | | Average | | Departure from normal | | Highest | Date | Lowest | Date | No. of
days | | Average relative humidity | Total | | | | | | Departure from normal | Greatest in 24 hours | With thunderstorms
25 mm. or more | No. of
days | Snow Sleet | Maximum depth
on ground | Resultant speed | Resultant direction | Speed | Direction | Fastest mile
1.6 kilometers | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | C | F | C | F | C | F | C | F | | | | | C | F | | C | F | C | | | | | | | | | | | | | | | F | C | F | Mm. | In. | Mm. | In. | Mm. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. |

Data from airport unless otherwise specified. U indicates Urban, R indicates Rural, S indicates Sides.

Precipitation data in column headed "Greatest in 24 hours" are computed on a 24-hour basis without regard to calendar day - data may include precipitation with a measurable amount from the last day of the previous month or the first day of the following month.

Wind directions under resultant direction are in tens of degrees.

Value entered in column "Fastest Mile" is the highest observed 1-minute wind speed when the direction is in tens of degrees. These stations are not equipped with a recording anemometer from which "Fastest Mile" data can be evaluated.

B Number of days maximum 21.1°C. or above for Alaskan Stations.

Y Peak Gust.

+ And also on an earlier date or dates.

Ø Station pressures apply to elevations shown in the "Elevations - Station Pressure" table of the annual issue of this publication.

Data in this table are obtained by conversion from data in the English Units table.

(Base 65°F.)

MAY, 1970

Data from airport unless otherwise specified.
U indicates Urban, R indicates Rural, sites.

COOLING DEGREE DAYS

(Base 65°F.)

MAY 1970

| State and station | Current season | | Normals January through this month | | State and station | Current season | | Normals January through this month | | State and station | Current season | | Normals January through this month | | State and station | Current season | | Normals January through this month | |
|---------------------|----------------|-----------------------------------|------------------------------------|--|---------------------|----------------|-----------------------------------|------------------------------------|--|---------------------|----------------|-----------------------------------|------------------------------------|--|-------------------|----------------|-----------------------------------|------------------------------------|--|
| | This month | Period January through this month | | | | This month | Period January through this month | | | | This month | Period January through this month | | | | This month | Period January through this month | | |
| ALABAMA | | | | | HAWAII | | | | | NEBRASKA | | | | | SOUTH DAKOTA | | | | |
| BIRMINGHAM | 227 | 344 | | | HILO | 273 | 1093 | | | NORTH PLATTE | 48 | 52 | | | ABERDEEN | 14 | 14 | | |
| HUNTSVILLE | 176 | 264 | | | HONOLULU | 485 | 1804 | | | OMAHA | 172 | 204 | | | HURON | 18 | 18 | | |
| MOBILE | 335 | 588 | | | KAHULUI | 374 | 1279 | | | SCOTTSBLUFF | 7 | 7 | | | RAPID CITY | 7 | 7 | | |
| MONTGOMERY | 245 | 395 | | | LIHUE | 387 | 1400 | | | VALENTINE | 49 | 49 | | | SIOUX FALLS | 54 | 60 | | |
| ALASKA | | | | | IDAHO | | | | | NEVADA | | | | | TENNESSEE | | | | |
| ANCHORAGE | 0 | 0 | | | BOISE | 24 | 24 | | | ELKO | 0 | 0 | | | BRISTOL | 106 | 134 | | |
| ANNETTE | 0 | 0 | | | LEWISTON | 16 | 16 | | | ELY | 0 | 0 | | | CHATTANOOGA | 133 | 190 | | |
| BARROW | 0 | 0 | | | POCATELLO | 0 | 0 | | | LAS VEGAS | 334 | 355 | | | KNOXVILLE | 162 | 195 | | |
| BARTER ISLAND | 0 | 0 | | | ILLINOIS | | | | | RENO | 6 | 6 | | | MEMPHIS | 251 | 358 | | |
| BETHEL | 0 | 0 | | | CAIRO U | 236 | 298 | | | WINNEMUCCA | 2 | 2 | | | NASHVILLE | 163 | 219 | | |
| BETTTLES | 0 | 0 | | | CHICAGO O HARE | 78 | 104 | | | NEW HAMPSHIRE | | | | | OAK RIDGE R | 140 | 177 | | |
| BIG DELTA | 0 | 0 | | | CHICAGO MIDWAY | 104 | 136 | | | CONCORD | 27 | 28 | | | TEXAS | | | | |
| COLD BAY | 0 | 0 | | | MOLINE | 119 | 151 | | | MT WASHINGTON OBS | 0 | 0 | | | ABILENE | 202 | 313 | | |
| FAIRBANKS | 0 | 0 | | | PEORIA | 99 | 123 | | | ATLANTIC CITY | 63 | 63 | | | AMARILLO | 176 | 190 | | |
| GULKANA | 0 | 0 | | | ROCKFORD | 64 | 80 | | | ATLANTIC CITY U | 37 | 37 | | | AUSTIN | 235 | 419 | | |
| HOMER | 0 | 0 | | | SPRINGFIELD | 136 | 167 | | | TRENTON U | 83 | 85 | | | BROWNSVILLE | 364 | 919 | | |
| JUNEAU | 0 | 0 | | | INDIANA | | | | | NEW MEXICO | | | | | CORPUS CHRISTI | 329 | 691 | | |
| KOTZEBUE | 0 | 0 | | | EVANSVILLE | 169 | 212 | | | ALBUQUERQUE | 105 | 105 | | | DALLAS | 284 | 439 | | |
| MC GRATH | 0 | 0 | | | FORT WAYNE | 92 | 108 | | | CLAYTON | 36 | 36 | | | DEL RIO | 286 | 504 | | |
| NOME | 0 | 0 | | | INDIANAPOLIS | 122 | 148 | | | ROSWELL | 146 | 155 | | | EL PASO | 263 | 322 | | |
| ST. PAUL ISLAND | 0 | 0 | | | SOUTH BEND | 63 | 82 | | | NEW YORK | | | | | FORT WORTH | 236 | 356 | | |
| SHEMYA | 0 | 0 | | | IOWA | | | | | ALBANY | 36 | 48 | | | GALVESTON U | 292 | 469 | | |
| SUMMIT | 0 | 0 | | | BURLINGTON | 110 | 134 | | | BINGHAMTON | 22 | 29 | | | HOUSTON INTERCON | 238 | 454 | | |
| TALKEETNA | 0 | 0 | | | DES MOINES | 131 | 162 | | | BUFFALO | 21 | 37 | | | LUBBOCK | 167 | 178 | | |
| UNALAKLEET | 0 | 0 | | | DUBUQUE | 80 | 99 | | | NEW YORK U | 86 | 94 | | | MIDLAND | 205 | 242 | | |
| YAKUTAT | 0 | 0 | | | SIOUX CITY | 131 | 154 | | | NEW YORK KENNEDY | 42 | 42 | | | PORT ARTHUR | 309 | 572 | | |
| ARIZONA | | | | | WATERLOO | 84 | 112 | | | NEW YORK LA GUARDIA | 54 | 56 | | | SAN ANGELO | 248 | 397 | | |
| FLAGSTAFF | 0 | 0 | | | KANSAS | | | | | ROCHESTER | 47 | 63 | | | SAN ANTONIO | 259 | 493 | | |
| PHOENIX | 459 | 525 | | | CONCORDIA | 154 | 177 | | | SYRACUSE | 22 | 30 | | | VICTORIA | 269 | 551 | | |
| TUCSON | 333 | 363 | | | DODGE CITY | 161 | 179 | | | NORTH CAROLINA | | | | | WACO | 260 | 419 | | |
| WINSLOW | 53 | 53 | | | GOODLAND | 59 | 59 | | | ASHEVILLE | 52 | 74 | | | WICHITA FALLS | 233 | 322 | | |
| YUMA | 450 | 575 | | | TOPEKA | 149 | 184 | | | CAPE HATTERAS R | 127 | 134 | | | UTAH | | | | |
| ARKANSAS | | | | | WICHITA | 187 | 213 | | | CHARLOTTE | 148 | 195 | | | MILFORD | 7 | 7 | | |
| FORT SMITH | 236 | 308 | | | KENTUCKY | | | | | GREENSBORO | 151 | 196 | | | SALT LAKE CITY | 32 | 32 | | |
| LITTLE ROCK | 243 | 323 | | | COVINGTON | 151 | 179 | | | RALEIGH | 113 | 154 | | | WENDOVER | 41 | 41 | | |
| CALIFORNIA | | | | | LEXINGTON | 137 | 163 | | | WILMINGTON | 205 | 295 | | | VERMONT | | | | |
| BAKERSFIELD | 300 | 324 | | | LOUISVILLE | 147 | 183 | | | NORTH DAKOTA | | | | | BURLINGTON | 11 | 11 | | |
| BISHOP | 60 | 60 | | | LOUISIANA | | | | | BISMARCK | 5 | 5 | | | VIRGINIA | | | | |
| BLUE CANYON | 11 | 11 | | | ALEXANDRIA | 227 | 403 | | | FARGO | 2 | 2 | | | LYNCHBURG | 116 | 133 | | |
| EUREKA U | 1 | 1 | | | BATON ROUGE | 281 | 531 | | | WILLISTON | 3 | 3 | | | NORFOLK | 140 | 160 | | |
| FRESNO | 212 | 212 | | | LAKE CHARLES | 292 | 511 | | | OHIO | | | | | RICHMOND | 185 | 220 | | |
| LONG BEACH | 70 | 80 | | | NEW ORLEANS | 297 | 562 | | | AKRON | 79 | 96 | | | ROANOKE | 128 | 150 | | |
| LOS ANGELES | 27 | 37 | | | SHREVEPORT | 259 | 411 | | | CINCINNATI OBS | 158 | 190 | | | WALLOPS ISLAND | 64 | 65 | | |
| LOS ANGELES U | 106 | 151 | | | MAINE | | | | | CLEVELAND | 89 | 111 | | | WASHINGTON | | | | |
| MT SHASTA R | 2 | 2 | | | CARIBOU | 2 | 2 | | | COLUMBUS | 125 | 147 | | | OLYMPIA | 0 | 0 | | |
| OAKLAND | 27 | 28 | | | PORTLAND | 4 | 4 | | | DAYTON | 125 | 147 | | | QUILLAYUE | 0 | 0 | | |
| RED BLUFF | 224 | 228 | | | MARYLAND | | | | | MANFIELD | 71 | 88 | | | SEATTLE TACOMA | 1 | 1 | | |
| SACRAMENTO | 143 | 143 | | | BALTIMORE | 134 | 138 | | | TOLEDO | 62 | 81 | | | SPOKANE | 3 | 3 | | |
| SANDBERG R | 39 | 39 | | | MASSACHUSETTS | | | | | YOUNGSTOWN | 71 | 87 | | | STAMPED PASS R | 0 | 0 | | |
| SAN DIEGO | 21 | 24 | | | BLUE HILL OBS R | 20 | 20 | | | OKLAHOMA | | | | | WALLA WALLA U | 23 | 23 | | |
| SAN FRANCISCO | 34 | 34 | | | BOSTON | 25 | 25 | | | OKLAHOMA CITY | 169 | 217 | | | YAKIMA | 6 | 6 | | |
| SAN FRANCISCO U | 19 | 24 | | | WORCESTER | 16 | 16 | | | TULSA | 209 | 259 | | | WEST INDIES | | | | |
| SANTA MARIA | 21 | 21 | | | MICHIGAN | | | | | ASTORIA | 0 | 0 | | | SAN JUAN P.R. | 490 | 2042 | | |
| STOCKTON | 168 | 168 | | | ALPENA | 11 | 13 | | | BURNS U | 0 | 0 | | | SWAN ISLAND | 514 | 2248 | | |
| COLORADO | | | | | DETROIT | 71 | 89 | | | EUGENE | 4 | 4 | | | WEST VIRGINIA | | | | |
| ALAMOSA | 0 | 0 | | | DETROIT METRO | 50 | 67 | | | MEACHAM | 0 | 0 | | | BECKLEY | 53 | 69 | | |
| COLORADO SPRINGS | 13 | 15 | | | FLINT | 36 | 53 | | | MEDFORD | 15 | 15 | | | CHARLESTON | 147 | 187 | | |
| DENVER | 16 | 16 | | | GRAND RAPIDS | 49 | 68 | | | PENDLETON | 11 | 11 | | | ELKINS | 28 | 30 | | |
| GRAND JUNCTION | 67 | 67 | | | HOUGHTON LAKE | 15 | 21 | | | PORTLAND | 8 | 8 | | | HUNTINGTON | 130 | 151 | | |
| PUEBLO | 100 | 102 | | | LANSING | 42 | 57 | | | SALEM | 2 | 2 | | | PARKERSBURG U | 149 | 181 | | |
| CONNECTICUT | | | | | MARQUETTE U | 6 | 6 | | | SEXTON SUMMIT R | 10 | 10 | | | WISCONSIN | | | | |
| BRIDGEPORT | 16 | 10 | | | MUSKEGON | 49 | 62 | | | PACIFIC AREA | | | | | GREEN BAY | 26 | 36 | | |
| HARTFORD | 58 | 66 | | | SAULT STE MARIE | 0 | 0 | | | GUAM TAGUAC R | 465 | 2056 | | | LA CROSSE | 75 | 104 | | |
| DELAWARE | | | | | MINNESOTA | | | | | KOROR R | 546 | 2618 | | | MADISON | 47 | 59 | | |
| WILMINGTON | 97 | 99 | | | DULUTH | 8 | 8 | | | MAJURO | 518 | 2570 | | | MILWAUKEE | 29 | 33 | | |
| DIST.OF COLUMBIA | | | | | INTERNATIONAL FALLS | 54 | 71 | | | PAGO PAGO | 508 | 2442 | | | WYOMING | | | | |
| WASHINGTON DULLES | 83 | 93 | | | ROCHESTER | 42 | 57 | | | PONAPE R | 521 | 2537 | | | CASPER | 0 | 0 | | |
| WASHINGTON NATIONAL | 166 | 176 | | | ST CLOUD | 21 | 24 | | | TRUK MOEN ISLAND | 527 | 2600 | | | CHEYENNE | 2 | 2 | | |
| FLORIDA | | | | | MISSISSIPPI | 274 | 459 | | | WAKE | 562 | 2373 | | | LANDER | 1 | 1 | | |
| APALACHICOLA U | 351 | 572 | | | JACKSON | 238 | 405 | | | YAP R | 526 | 2516 | | | SHERIDAN | 1 | 1 | | |
| DAYTONA BEACH | 351 | 727 | | | MERIDIAN | | | | | PENNSYLVANIA | | | | | | | | | |
| FORT MYERS | 322 | 773 | | | MISSOURI | | | | | ALLENTOWN | 44 | 46 | | | | | | | |
| JACKSONVILLE | 325 | 639 | | | COLUMBIA REGIONAL | 128 | 160 | | | ERIE | 28 | 41 | | | | | | | |
| KEY WEST | 435 | 1311 | | | KANSAS CITY | 250 | 308 | | | HARRISBURG | 102 | 109 | | | | | | | |
| LAKELAND U | 320 | 730 | | | ST JOSEPH | 234 | 297 | | | PHILADELPHIA | 100 | 103 | | | | | | | |
| MIAMI | 446 | 1254 | | | ST LOUIS | 195 | 249 | | | PITTSBURGH | 100 | 121 | | | | | | | |
| ORLANDO | 399 | 890 | | | SPRINGFIELD | 105 | 127 | | | SCRANTON | 40 | 50 | | | | | | | |
| PENSACOLA | 354 | 579 | | | MONTANA | | | | | WILLIAMSPORT | 58 | 66 | | | | | | | |
| TALLAHASSEE | 267 | 506 | | | BILLINGS | 10 | 10 | | | RHODE ISLAND | | | | | | | | | |
| TAMPA | 352 | 714 | | | GLASGOW | 3 | 3 | | | BLOCK ISLAND | 0 | 0 | | | | | | | |
| WEST PALM BEACH | 403 | 974 | | | GREAT FALLS | 4 | 4 | | | PROVIDENCE | 13 | 13 | | | | | | | |
| GEORGIA | | | | | HAVRE | 0 | 0 | | | SOUTH CAROLINA | | | | | | | | | |
| ATHENS | 183 | 266 | | | HELENA | 0 | 0 | | | CHARLESTON | 253 | 388 | | | | | | | |
| ATLANTA | 178 | 258 | | | KALISPELL | 0 | 0 | | | CHARLESTON U | 284 | 425 | | | | | | | |
| AUGUSTA | 201 | 297 | | | MILES CITY | 16 | 16 | | | COLUMBIA | 266 | 438 | | | | | | | |
| COLUMBUS | 280 | 425 | | | MISSOULA | 0 | 0 | | | GRNVILLE SPRTNBRG | 154 | 213 | | | | | | | |
| MACON | 257 | 409 | | | NEBRASKA | | | | | | | | | | | | | | |
| ROME | 151 | 226 | | | GRAND ISLAND | 128 | 140 | | | | | | | | | | | | |
| SAVANNAH | 262 | 455 | | | LINCOLN U | 172 | 210 | | | | | | | | | | | | |
| | | | | | MORFOLK | 107 | 116 | | | | | | | | | | | | |

Data from airport unless otherwise specified.

1 indicates 1 hour of observation during the month.

STORM SUMMARY

MAY 1974

| STATE | TORNADOES | | | | | HAILSTORMS | | | | WINDSTORMS | | | | LIGHTNING | | | | # HEAVY SNOWSTORMS
AND BLIZZARDS | | | | # ICE STORMS | | | | ALL OTHER | | | |
|------------------|-----------|------|--------|----------|--------|------------|----------|---------------|-------|------------|----------|---------------|-------|-----------|----------|---------------|-------|-------------------------------------|----------|---------------|-------|--------------|----------|--------|---|-----------|----------|--------|---|
| | NUMBER | DAYS | DEATHS | INJURIES | DAMAGE | DEATHS | INJURIES | DAMAGE | | DEATHS | INJURIES | DAMAGE | | DEATHS | INJURIES | DAMAGE | | DEATHS | INJURIES | DAMAGE | | DEATHS | INJURIES | DAMAGE | | DEATHS | INJURIES | DAMAGE | |
| | | | | | | | | PROP.
ERTY | CROPS | | | PROP.
ERTY | CROPS | | | PROP.
ERTY | CROPS | | | PROP.
ERTY | CROPS | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Alabama | | | | | | | | | | 0 | 0 | 4 | 0 | | | | | | | | | | | | 0 | 0 | 5 | 4 | |
| Alaska | | | | | | | | | | | | | | | | | | | | | | | | | 0 | 0 | 3 | 0 | |
| Arizona* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Arkansas | | | | | | | | | | 0 | 0 | 4 | 0 | 1 | 0 | 0 | 0 | | | | | | | | | | | | |
| California* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Colorado | | | | | | 0 | 0 | 3 | 2 | 0 | 77 | 4 | 2 | | | | | | | | | | | | | | | | |
| Connecticut* | | | | | | | | | | 1 | 0 | 0 | 0 | | | | | | | | | | | | | | | | |
| Delaware | | | | | | | | | | 0 | 0 | 0 | 0 | | | | | | | | | | | | | | | | |
| Florida | 1 | 1 | 0 | 0 | 3 | | | | | 0 | 0 | 0 | 3 | | | | | | | | | | | | | | | | |
| Georgia | 4 | 4 | 0 | 0 | 5 | 0 | 0 | 3 | 5 | | | 4 | 0 | 1 | 6 | 0 | 0 | | | | | | | | | | | | |
| Hawaii* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Idaho | | | | | | | | | | 0 | 0 | 4 | 3 | 0 | 5 | 4 | 0 | | | | | | | | | | | | |
| Illinois | 2 | 2 | 0 | 0 | 5 | 0 | 0 | 2 | 2 | 0 | 0 | 4 | 0 | 0 | 0 | 5 | 0 | | | | | | | | | | | | |
| Indiana | 5 | 2 | 0 | 0 | 5 | 0 | 0 | 5 | 4 | 0 | 0 | 5 | 3 | 0 | 1 | 4 | 0 | | | | | | | | | | | | |
| Iowa | 8 | 5 | 0 | 0 | 5 | 0 | 0 | 5 | 5 | | | 4 | 5 | 0 | 2 | 2 | 5 | 0 | | | | | | | 0 | 0 | 6 | 5 | |
| Kansas | 10 | 5 | 0 | 0 | 5 | 0 | 0 | 6 | 6 | 0 | 1 | 6 | 5 | 4 | 0 | 5 | 0 | | | | | | | | 0 | 0 | 5 | 5 | |
| Kentucky | | | | | | | | | | 0 | 2 | 2 | 2 | 0 | 0 | 5 | 0 | | | | | | | | | 0 | 0 | 2 | 2 |
| Louisiana | 3 | 2 | 0 | 0 | 4 | | | | | 0 | 0 | 4 | C | | | | | | | | | | | | | | | | |
| Maine* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Maryland | | | | | | 0 | 0 | 4 | 4 | 1 | 13 | 6 | C | 0 | 3 | 4 | 0 | | | | | | | | | | | | |
| Massachusetts | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Michigan | | | | | | | | | | 0 | 2 | 5 | 0 | 1 | 2 | 7 | 0 | | | | | | | | | | | | |
| Minnesota | | | | | | 0 | 0 | 3 | 0 | | | | | 0 | 0 | 5 | 0 | | | | | | | | 3 | 0 | 6 | 6 | |
| Mississippi | 2 | 1 | 0 | 4 | 5 | 0 | 0 | 2 | 2 | 0 | 0 | 2 | 0 | 3 | 0 | 2 | 0 | | | | | | | | 0 | 0 | 6 | 2 | |
| Missouri | 5 | 3 | 0 | 0 | 4 | 0 | 0 | 6 | 0 | 0 | 0 | 6 | 0 | 2 | 0 | 0 | 0 | | | | | | | | | | | | |
| Montana | | | | | | 0 | 0 | 4 | 3 | 0 | 0 | 4 | 0 | | | | | 0 | 0 | 4 | 0 | | | | 0 | 0 | 4 | 2 | |
| Nebraska | 1 | 1 | 0 | 1 | 5 | 0 | 0 | 5 | 6 | 0 | 0 | 4 | 4 | 0 | 2 | 4 | 0 | 0 | 0 | 4 | 0 | | | | | | | | |
| Nevada | 1 | 1 | 0 | 0 | 0 | | | | | | | | | | | | | | | | | | | | | | | | |
| New Hampshire* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| New Jersey* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| New Mexico | 4 | 2 | 0 | 0 | 2 | | | | | 0 | 2 | 3 | 0 | | | | | | | | | | | | | | | | |
| New York | | | | | | | | | | 0 | 0 | 3 | 0 | | | | | | | | | | | | | | | | |
| North Carolina | | | | | | 0 | 0 | 0 | 5 | | | 4 | 0 | 0 | 1 | 4 | 0 | | | | | | | | | | | | |
| North Dakota | 1 | 1 | 0 | 0 | 3 | | | | | 0 | 1 | 3 | 0 | | | | | | | | | | | | 0 | 0 | 6 | 7 | |
| Ohio | 6 | 3 | 0 | 11 | 5 | 0 | 0 | 0 | C | 0 | 1 | 6 | 0 | 2 | 3 | 5 | 0 | | | | | | | | | | | | |
| Oklahoma | 5 | 3 | 0 | 0 | 3 | 0 | 0 | 2 | 2 | 0 | 0 | 2 | 2 | 0 | 0 | 5 | 0 | | | | | | | | 0 | 0 | 6 | 2 | |
| Oregon* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pacific* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pennsylvania | | | | | | 0 | 0 | 4 | 4 | 1 | 1 | 5 | 4 | 0 | 1 | 5 | 4 | | | | | | | | 0 | 2 | 5 | 4 | |
| Puerto Rico | | | | | | | | | | | | | | | | | | | | | | | | | 0 | 0 | 5 | C | |
| Rhode Island* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| South Carolina | 1 | 1 | 0 | 0 | 3 | 0 | 0 | 0 | 4 | | | | | 0 | 0 | 4 | 0 | | | | | | | | | | | | |
| South Dakota | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 5 | 5 | | | | | | | | | | | | | | | | 0 | 0 | 5 | 2 | |
| Tennessee | | | | | | 0 | 0 | 4 | 0 | 0 | 1 | 5 | 0 | 0 | 2 | 5 | 0 | | | | | | | | 0 | 0 | 4 | 0 | |
| Texas | 23 | 10 | 26 | 542 | ■ | 0 | 0 | 5 | 5 | 3 | 3 | 5 | 4 | 0 | 11 | 1 | 0 | | | | | | | | 3 | 0 | 6 | 5 | |
| Utah | | | | | | 0 | 0 | 2 | 2 | 0 | 35 | 6 | 3 | | | | | | | | | | | | | | | | |
| Vermont* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| U. S. Virgin Is. | | | | | | | | | | | | | | | | | | | | | | | | | 0 | 0 | 5 | 0 | |
| Virginia | | | | | | 0 | 0 | 4 | 4 | 0 | 6 | 4 | 0 | 0 | 0 | 5 | 0 | | | | | | | | | | | | |
| Washington* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| West Virginia | | | | | | | | | | 0 | 0 | 3 | 0 | 1 | 0 | 4 | 0 | | | | | | | | | 0 | 0 | 4 | 3 |
| Wisconsin | 3 | 2 | 0 | 1 | 4 | 0 | 0 | 5 | 0 | 0 | 5 | 6 | 0 | 0 | 1 | 5 | 0 | | | | | | | | 0 | 0 | 5 | 0 | |
| Wyoming | | | | | | 0 | 0 | 5 | C | | | | | | | | | | | | | | | | | | | | |

- * Includes crop damage
- C Crop damage
- * No occurrence of storms or unusual weather phenomena reported.
- † Includes heavy sleet storm.
- # Freezing drizzle and freezing rain, commonly known as glaze.
- Ø For breakdown of "All Others", and for detailed listing of other storms, see the Environmental Data Service, ESSA, monthly publication STORM DATA.
- † Storm damages are placed in categories varying from 1 to 9 as follows:
 - 1 Less than \$50
 - 2 \$50 to \$500
 - 3 \$500 to \$5,000
 - 4 \$5,000 to \$50,000
 - 5 \$50,000 to \$500,000
 - 6 \$500,000 to \$5,000,000
 - 7 \$5,000,000 to \$50,000,000
 - 8 \$50,000,000 to \$500,000,000
 - 9 \$500,000,000 to \$5,000,000,000.

GENERAL SUMMARY OF RIVER AND FLOOD CONDITIONS

MAY 1970

Elmer R. Nelson, Office of Hydrology

Severe flash floods occurred during May in southeastern Minnesota and in south-central Texas. Flood damages were estimated at several million dollars and five lives were lost. The flooding at San Marcos, Tex., was the worst in its history. Other flash floods were reported in northwest Iowa, southwestern North Dakota, and northeastern Oklahoma.

Extensive flooding occurred on small streams in Missouri and Illinois during May. The Vermilion River at Pontiac, Ill., reached the second highest stage of record since 1942. A near-record crest occurred on the Illinois River at La Salle, Ill.

Moderate to severe flooding occurred in streams in the Kansas River Basin. The flooding on the upper Soldier Creek was described as the highest in memory of residents. The Petite Saline River at Boonville, Mo., crested at a record crest.

The Des Lacs River in the Souris Basin in North Dakota crested at a record stage. The crests along the main stem of the Red River of the North were generally 3.5 ft. lower than in 1969, except at Grand Forks, N. Dak., where it was 11.3 ft. lower.

HUDSON BAY DRAINAGE

Red River of the North Basin--Precipitation over the Red River of the North Basin during the fall and winter months averaged near normal except below normal over the Souris Basin in North Dakota. Less than normal precipitation occurred generally over the basin during the months of January and February except normal amounts over the northern portion of Minnesota. Above normal precipitation occurred during the months of March, April, and May.

Two to three feet of snow fell over much of the Souris Basin on April 12-16 and another 1/2 foot of snow occurred between April 18-22. Gradual melting permitted a good portion of the snowmelt to be absorbed by the relatively dry ground. Heavy rains of 1 to 3 inches on April 28-30 over the upper Souris Basin melted the remaining snow cover, causing rapid runoff. Heavy rains of 2 inches or more between May 8 and May 14 added additional runoff to the serious flood situation in the Souris Basin.

The Souris River crested 3.3 ft. and 5.3 ft. lower than in 1969 near Minot and Sherwood, N. Dak., respectively. The Des Lacs River at Foxholm, N. Dak., crested at a record stage of 20.71 ft. This was 0.9 foot higher than the 19.8-foot crest recorded in 1969.

The Red River of the North exceeded flood stage in the reach from Grand Forks, N. Dak., to Pembina, N. Dak., between April 10 and May 10. The crests during April were generally 6 ft. above flood stage except at Pembina, N. Dak., where the crest was 3.6 ft. above flood stage on May 2. In comparison with the flood of 1969, the crests were generally 3.5 ft. lower, except 11.3 ft. lower at Grand Forks, N. Dak.

Damage to city property and farmlands in the Souris Basin was extensive, but much less than in 1969. An established network of weather observers made it possible for the Weather Bureau to measure snow depth, determine water equivalent and issue flood forecasts well in advance of the flood. The Corps of Engineers, the Civil Defense, and residents of the area had ample time to protect property by preparing dikes, shorten river channels, and lay sand bags. Flood damage in the remainder of the basin was confined chiefly to farmlands downstream from Grand

Forks, N. Dak. Heavy rain (about 6 inches) on May 29 in Ransom and Cass Counties caused extensive damage to farm crops. A crest of 11.1 ft. at Enderlin, N. Dak., (flood stage 6 ft.) on the Maple River, flooded basements and caused extensive damage to city property.

ST. LAWRENCE DRAINAGE

Lake Erie--Minor overflow occurred on the St. Joseph River at Montpelier, Ohio, on May 15-17. No damage was reported.

EAST GULF OF MEXICO DRAINAGE

The flooding on the lower Tombigbee River in Mississippi and Alabama during May was due to heavy rainfall on April 25-27. The crests during the latter part of April and the first part of May ranged from 2 to 7 ft. above flood stage. Flood damage during April and May was rather extensive and slightly higher than in March.

Minor flooding occurred on the Pearl River in the reach at and below Jackson, Miss., between May 1 and May 15. Discharge from the Ross Barnett Reservoir produced a stage of 27.4 ft. at Jackson, Miss. (flood stage 18 ft.) on May 3. Flood waters were contained by the levee system around Jackson and presented no problem. Some lowland flooding occurred in the reach below. Damages during April and May were estimated at \$356,000.

MISSISSIPPI SYSTEM

Upper Mississippi Basin--Locally heavy rain during the afternoon and evening of the 27th caused flash flooding on the Zumbro River in southeastern Minnesota on the 28th. This heavy rain was due to a re-developing surface low in western Nebraska which moved northeastward into southeastern Minnesota with the heaviest rain occurring over the North Branch of the Zumbro River. One and one-half to 2 inches of rain occurred in a two-hour period between 4:30 p.m. and 7 p.m. on the 27th. The Minnesota highway patrol reported there was 10 inches of water over highway 52, 10 miles northwest of Zumbrota, Minn. Several cars were swept off the highways. The flash flooding claimed three lives north of Zumbrota. Several people were rescued downstream from Zumbrota. Soil erosion damage has been estimated at near \$2.5 million. About a dozen county road bridges or approaches were washed out. Approximately 60 miles of the county road system were partially or completely washed out. Livestock losses, estimated at 75 cattle and 100 hogs, were kept to a minimum due to watchfulness of the farmers and flood advisories. Numerous outbuildings were destroyed. A trailer was damaged, but its occupants escaped. A rainfall bucket survey was conducted in the affected area by the substation network specialist on the 28th. See Table I, Supplementary Precipitation Data, Storm of May 27, 1970, southeastern Minnesota.

Four days of rain in central Iowa beginning on the 11th caused flooding in the Iowa, Skunk, and Des Moines River Basins. Rainfall accumulations totalled 3 inches or more over wide areas in central and eastern Iowa. Rainfall totalled 4 to 6 inches over an area 20 to 25 miles wide, extending from Green County eastward through Cedar and Scott Counties. Small streams throughout the heavy rain area rose rapidly out of their banks. Light flooding occurred locally on the larger streams. Damages from these late spring

MAY 1970

floods were minor.

Heavy rains during the second week in May caused extensive flooding on small streams in Missouri and Illinois. The crest of 17.3 ft. at Pontiac, Ill., on the Vermilion River was the second highest stage of record since the gage was installed by U. S. Geological Survey in 1942. Residents state that there were higher floods prior to 1942. At the time of the crest, approximately one-half of the streets were covered with water to a depth of a few inches to a few feet. In only a few instances did the water reach the level of the first floor in any home in the area. The primary damage was to items or articles kept in basements and to streets, parks, private property, etc. Serious flooding occurred along the entire length of the Illinois River. A near-record crest of 30.25 ft. was reached at La Salle, Ill., on the 16th. This was the second highest crest of record at La Salle. The record crest was 31.0 ft., set on May 22, 1943. A 7- to 10-foot overflow was common along the Illinois River from Morris, Ill., downstream to the mouth. Extensive damage resulted to farm crops.

Flooding along the Mississippi River from Louisiana, Mo., downstream to Thebes, Ill., was generally restricted to farmlands with overflows of 1 to 4 feet. There were two crests during the month with the first occurring on the 3d and 4th at most points, and the second on the 18th to the 21st.

The total flood damages in Illinois and Missouri were estimated in excess of \$1 million. Of the total flood damages, \$150,000 to \$200,000 occurred as the flood crest moved down the Vermilion River through the Pontiac, Ill., area.

Missouri Basin--Heavy snowmelt runoff combined with moderate rainfall caused streams in the Gallatin Valley near Bozeman, Mont., to overflow their banks around the 15th and continue in flood through the end of the month. The snow cover was extremely heavy, in many cases the heaviest of record. Warm temperatures and moderate precipitation caused the East Gallatin and its tributaries, Bridger, Hyalite, and Sourdough Creeks, to flow at or above bankfull levels with some shallow flooding in lower areas. Most damage occurred along the East Gallatin below these tributaries. About 50 homes reported water in their basements along with other damage to general property, roads, and farmland.

Locally heavy rains during the latter part of May combined with snowmelt produced minor overflow on a number of the smaller tributaries to the Yellowstone River in Montana. Minor overflow was reported on the Shields, Clarks Fork, the upper reaches of the Little Big Horn, and on some minor streams near Red Lodge, Mont.

Heavy rains over the southwestern quadrant of North Dakota on the 8th and 9th, with lighter rain continuing through the 14th, caused flooding principally on the tributaries of the Heart and Cannonball Rivers, notably the Big Muddy and Antelope Creeks. Up to 6 inches of rain were centered in the Richardton area, with 3 to 5 inches from Medora to Almont. The torrential rains caused considerable road, culvert, and small bridge damage, with widespread flooding. In Almont, 100 persons (nearly one-half the total population) were evacuated by the National Guard on the night of May 8. The 1970 flood waters, contrasted with the severely damaging 1966 flood, caused more damage to city facilities, but less damage in residential areas. The Heart River overflowed on the 10th and 11th at a number of places in the rural area, principally west of Mandan, but damage was relatively light. Streamside farms and ranches along the Cannonball River were evacuated when the 60-foot eastern Sheep Creek Dam, 3 miles

south of Elgin, N. Dak., broke on the 8th. No communities were in the path of the water until it reached Breien. Repairs to Sheep Creek Dam will require expenditures of about \$100,000. It will need to be excavated and rebuilt. Damage to mobile homes, roads, and bridges in Stark, Morton, and Grant Counties as a result of the heavy rains and flooding, totalled over \$800,000. This does not include \$206,000 damage to Federal aid roads and \$200,000 damage resulting from rain-caused landslides in the Medora area. Also an additional \$150,000 damage occurred in six other nearby counties.

Heavy thundershowers on the 27th, falling on ground already saturated from scattered thundershowers during the preceding 5 days, caused flash flooding in northwest Iowa. The heaviest flooding occurred in creeks in Lyon and Sioux Counties. The water from these creeks caused some flooding in the lower reaches of the Rock River and minor flooding on the Big Sioux River. These storms also produced minor flooding on the West Branch of the Floyd River. Six-Mile Creek, which runs from northwest of Sioux Center, Iowa, through Chads-worth into the Big Sioux River, flooded about 2,000 acres. Basement flooding occurred in 10 homes and one business establishment in Chads-worth, Iowa. Dry Creek, which flows into the Big Sioux River at Hawarden, Iowa, flooded about 500 acres of pastureland. Mud Creek, which runs from southwest Minnesota through Lester, Iowa, to the Rock River near Doon, Iowa, along with smaller creeks and dry washes in northwest Lyon County, sustained the heaviest flooding. Damages to public bridges and roads, as well as railroad tracks and bridges, were heavy in the western half of Lyon County. Approximately 5,000 acres were inundated. Damage to corn crops was heavy along the Rock River from Doon, Iowa, to its mouth where 2,000 acres of farmland were inundated. Damages in the Big Sioux River Basin were estimated near \$1 million.

Heavy, intense precipitation on the 8th-10th in north-eastern Kansas caused moderate to severe flooding in streams in the Kansas River Basin. Miltonvale, on the Republican, reported 5.85 inches in 3-1/2 hours on the evening of the 8th. Lillis, on the Black Vermillion River, reported 4.85 inches in slightly over 2 hours on the 10th. The second highest 15-minute intensity of record (1.69 inches) for Kansas was reported on the 10th at a U. S. Geological Survey recording gage at Goff on the headwaters of Soldier Creek. Runoff at the associated Goff stream gaging station (drainage area 2.06 sq. mi.) was greater than 4,000 c.f.s. per sq. mile, and according to the U. S. Geological Survey, exceeds any runoff intensity previously recorded in Kansas. Flooding along the Black Vermillion River and on the headwaters of Vermillion and Soldier Creeks and the Delaware River, was exceptionally severe on the 10th. The flooding on upper Soldier Creek was described as the highest in memory of residents. Damage to highways, railroads, and fences will be high. At Frankfort, on the Black Vermillion River, the crest of 27.9 ft. on the 10th was the highest since 1967. Near Wamego, on Vermillion Creek, the crest of 28.3 ft. on the 11th was the highest since 1962.

Several periods of heavy rain over the northwestern quadrant of Missouri from the 10th to the 16th caused some flooding on the lower Missouri, lower Grand, and Chariton Rivers, in addition to small tributaries. The Petite Saline River at Boonville, Mo., crested at a record crest of 24.4 ft. on the 15th. This was 8.4 ft. above flood stage. The previous record stage was 23.5 ft. on Oct. 21, 1949. Several county highways and roads were closed.

MAY 1970

Heavy rains during the latter part of April, May 1, and the second week of May caused extensive flooding on most streams in the lower Missouri Basin. Considerable damage occurred to farm crops along the Missouri from Hermann downstream through St. Charles, Mo.

Ohio Basin--The flooding in the Wabash Basin in Indiana during the latter part of April and the first part of May was due to rainfall in excess of 3 inches on April 19-20. Numerous secondary roads were flooded. There was minor damage to wheat crops. The more serious effect was the delay in the plowing of bottomlands where fields remained partially or wholly covered with water. About mid-May, a 3- or 4-day period of showers, with total rainfall averaging less than 2 inches, caused the Wabash River to rise above flood stage in the reach from Lafayette to Terre Haute, Ind. Flood losses in May resulted primarily from the delay to spring planting. In some cases, the prolonged overflow and the continued rains delayed spring planting beyond seasonal planting date deadlines.

The moderate flooding in the upper Cumberland Basin in southeastern Kentucky on April 28-May 1 was due to moderate to heavy rains. The rainfall averaged 3.5 to 4 inches during the 24-hour period ending at 7 a.m. on April 28. Damage was relatively small.

The flooding on the Tennessee River at Whitesburg, Ala., and Paducah, Ky., during the latter part of April and the first part of May was due to heavy rainfall during the 48-hour period ending on April 26.

The flooding on the Ohio River in the reach at and below Tell City, Ind., during the latter part of April and the first part of May was due to heavy rainfall on April 27-28. Rainfall amounts ranged from 3.5 to 6 inches. The crests were generally 3 ft. above flood stage in the reach from Tell City, Ind., to Uniontown, Ky., and 6 to 9 ft. above flood stage in the reach below. The major damage was agricultural. This flood delayed planting and destroyed crops that had already been planted.

White Basin--The flooding in the White Basin during the latter part of April and the first part of May was due to 3- to 6-inch rains on April 23-26.

The most severe flooding occurred on the Black River at Black Rock, Ark., where the crest was 9 ft. above flood stage on April 26 and 8.2 ft. above flood stage on May 2. The flooding continued for a period of 22 days.

The Cache River at Patterson, Ark., continued in flood from April 24 to May 20, a period of 27 days. The crest was 2.7 ft. above flood stage on May 3.

The main stem of the White River rose above flood stage during the latter part of April in the reach from Georgetown to Clarendon, Ark. It rose above flood stage at Augusta, Ark., and St. Charles, Ark., on May 3, and continued in flood at the latter location until May 26. The crests on May 2-11 averaged 2 to 3 ft. above flood stage in the reach at and below Georgetown, Ark.

Arkansas Basin--There was some flooding on most streams in the Arkansas Basin during the latter part of April and the first part of May. The streams remained out of their banks from a few hours to several days. Bird Creek at Sperry and Owasso, Okla., crested at a higher level than anytime since 1966.

The Arkansas River at Van Buren, Ark., crested 3.7 ft. above flood stage on May 1. This was the highest crest since 1961.

Severe flash flooding occurred along Mingo and Joe Creeks in the eastern and southern metropolitan areas of Tulsa, Okla., late on May 9 and early on May 10 from excessive rainfall (6 to 10 inches). A line of heavy thunderstorms which became stationary over south

Tulsa produced the heavy rains. Police and volunteers evacuated at least 25 families from flooded homes late on the 9th. Eight to 10 boats were used to evacuate families from south Tulsa lowland areas. Cars, trucks, furniture, and belongings were carried away by the raging waters which rose at least 20 feet out of its banks along Mingo Creek. This was the worst flooding in Tulsa since the flooding of the Arkansas River in 1957. At least 18 homes were destroyed. The City Engineer estimated the damages along Mingo and Joe Creeks at approximately \$842,000.

This same storm deposited nearly 2 inches of rainfall over the Illinois River Basin. Nearly 2 feet of flooding occurred at Tahlequah, Okla., on the 10th.

Red Basin--Minor flooding occurred during the first part of May in extreme southeastern Oklahoma and in portions of northeast Texas. Crests on the Blue River at Blue, Okla., and on Clear Boggy Creek at Caney, Okla., on May 1 were less than 1.5 ft. above flood stage. Minor flooding occurred on the Sulphur River in northeastern Texas during the latter part of April and the first part of May.

The Ouachita River at Camden, Ark., continued in flood from April 22 to May 7, a period of 16 days. The crest on May 1 was 6.1 ft. above flood stage.

Lower Mississippi Basin--The flooding on the St. Francis River during May was due to heavy rain on April 18-19. It rose above flood stage at Fisk, Mo., on April 21 and crested on April 24 nearly 4 ft. above flood stage. It receded within its banks on May 3. Flooding continued at St. Francis, Ark., from April 24 to May 16, a period of 23 days. The fall below flood stage was delayed due to the heavy rains on May 9-11.

The flooding on the Big Black River at Bovina, Miss., on April 28 to May 13, was due to heavy rains in the headwaters on April 25-27. The crest at Bovina on May 4 was 7 ft. above flood stage.

The lower Mississippi River rose above flood stage at New Madrid, Mo., on May 2 and continued in flood to May 12. The crest on May 4 was 4.1 ft. above flood stage. At Caruthersville, Mo., the Mississippi continued in flood from April 28 to May 15. The crest on May 8 was 5.2 ft. above flood stage.

WEST GULF OF MEXICO DRAINAGE

Minor flooding occurred on the Sabine River in northeastern Texas between April 25 and May 10. The crests ranged from 1.5 to 3 ft. above flood stage on April 29 to May 5. No damage was reported.

Heavy rains (1 to 2 inches) in the upper Trinity during the 48-hour period ending at 7 a.m. on May 1 caused minor flooding at Dallas, Tex., on May 1 and at Long Lake, Tex., on May 5-7. The stream was already at a high level and above flood stage at Trinidad, Tex., from the heavy rains on April 26.

The San Jacinto continued to overflow the spillway at Lake Houston, Tex., from April 9 through May. The crests on April 12 and May 17 were 0.8 foot above the spillway. Only minor damage was reported.

Severe flash flooding occurred at San Marcos, Tex., on May 15. This was the worst flood in San Marcos' history. One-third to one-half of the city was inundated. This flood was due to rains that ranged from 6 to 15 inches over the San Marcos Basin during the late afternoon and night of May 14. Two children lost their lives when the boat evacuating these children capsized. No official figure on dollar damage to property is available but damage to homes, automobiles, and buildings will likely amount to several million dollars. See Table 2, Supplemental Precipitation Data, Storm of May 14-15,

GENERAL SUMMARY OF RIVER AND FLOOD CONDITIONS-Continued

MAY 1970

1970, south-central Texas for precipitation data obtained by Soil Conservation Service personnel following the severe flood.

Flash flooding occurred in San Antonio, Tex., during the afternoon of the 26th when heavy thundershowers totalling 3.27 inches fell in slightly over 1 hour. Some homes in the area were flooded. One death resulted when a woman and her car were washed several hundred feet off a road leading toward a high school, where children were being held until the floodwaters receded.

Very heavy rain of 7 to 14 inches occurred during the night of the 14th in a limited area around Hondo, Tex., and extending about 10 miles to the south. Rains of 1.5 to 3 inches extended out 15 to 20 miles from the center of this area. Extensive street flooding occurred in Hondo, and water entered numerous homes and businesses. Outside of Hondo, there was considerable damage to growing crops. Minor flooding occurred on the Frio River at Derby, Tex., on the 17th.

Minor flooding occurred on the Frio River at Calliham, Tex., on the 25th and 30th. Considerable flooding occurred on the Atascosa River at Whitsett, Tex., on May 28-June 3. The crest on June 1 was nearly 11 ft. above flood stage. Water from the Atascosa caused a rise on the lower Nueces from Three Rivers to Corpus Christi, Tex., beginning on the 24th to above flood stage on the 26th-30th. Flooding continued at Calallen, Tex., until June 13.

GREAT BASIN

Many rivers and creeks crested from the spring snowmelt during the last week of May. No flooding resulted from the snowmelt rises on the larger rivers and tributaries in Utah. Low level snow which accumulated in late April and early May caused minor flooding as it melted quickly about the middle of the month. On Goslin Creek, near Flaming Gorge Recreational Area, flooding of campgrounds and the recreational areas caused damages estimated at \$15,000.

PACIFIC SLOPE DRAINAGE

Columbia Basin--During the first 6 days of May, the unusually cold weather of April was reversed as temperatures rose into the 70's and 80's over much of the Columbia Basin. Only slight snowmelt runoff was noted in most streams as a result of the 9° above

normal temperature sequence. This was followed by heavy rains over the Salmon and Upper Snake River, which brought sharp cooling to the entire drainage, through mid-May. Heavy snows were reported in the Jackson Lake and Island Park areas in Idaho where record amounts were reported.

At mid-month, above normal temperatures were established throughout the basin that lasted through May 26. The warm temperatures and persistent showers increased the flow on all streams. Henrys Fork, a tributary of the upper Snake River, exceeded flood stage at Rexburg, Idaho, on May 21-31 and at St. Anthony, Idaho, on May 26-29. Most of the flooding was in the lower flat areas within the flood plain. More than 200 acres of the Jeppson Research Center west of Rexburg, Idaho, was under water. Heavy snowmelt during the latter part of May caused streams to rise in the vicinity of Salmon, Idaho. Both Fountain Creek and Cramer Creek below the mouth of the Middle Fork flowed across the roadway in areas where the culverts were unable to handle the increased flow. Excessive flow in Panther Creek washed away a portion of the Silver Creek roadway, making travel conditions hazardous in those steep-hill-sided areas. Some high water flowed into Sand Creek, a branch of Willow Creek, to the east and south of Idaho Falls, Idaho, around May 19.

Snake River flow at Clarkston, Wash., which had dropped to 80,000 c.f.s. by mid-month (from early month flow of 110,000 c.f.s.), increased rapidly reaching the month's highest flow of 208,000 c.f.s. on May 27.

Inflow to Grand Coulee, which had attained a flow of 140,000 c.f.s. by mid-May, rose to 231,000 c.f.s. on May 28. Outflow from the Grand Coulee Dam was maintained near 180,000 c.f.s. during the last week of May. With tributary streams below Grand Coulee and Clarkston, Wash., adding relatively high flow, the discharge at John Day Dam in the mid-Columbia Basin reached and held a near-steady flow of 410,000 c.f.s. from the 26th to the 28th. The flow at John Day, coupled with additional downstream tributary flow raised stages in the lower Columbia at Vancouver, Wash., to a crest of 14.0 ft. (flood stage, 16 ft.) on the 29th and 13.4 ft. in the Willamette Basin at Portland, Oreg. Flood stage at this point is 18 ft.

TABLE 1.

SUPPLEMENTARY PRECIPITATION DATA

Storm of May 27, 1970 - Southeastern Minnesota

The following supplementary reports were collected in Goodhue and Wabasha Counties in Minnesota by the Weather Bureau Substation Network Specialist for Minnesota. The totals shown are for a 24-hour period; however, most of the rain occurred in two hours. Radar data indicated that the heavy rain in the area of the survey occurred between 9:00 and 11:00 p.m. on May 27. Additional data on intensity from recording gages will appear in the publication "Hourly Precipitation Data."

| Location | County | Town-Ship | Range | Section | 5/27
Total | Type
Gage | Accuracy | Remark |
|--------------------|---------|-----------|-------|---------|---------------|--------------|----------|--------------------|
| Cannon Falls | Goodhue | 112 N | 17 W | 18 | 4.20 | Seed | Good | 2d gage 4.40 |
| Frontenac 5-1/2 SW | " | 112 N | 13 W | 29 | 3.00 | " | " | " |
| Frontenac 4-1/2 SW | " | 112 N | 13 W | 20 | 3.00 | " | " | " |
| Goodhue | " | 111 N | 15 W | 21 | 4.40 | " | " | 2d gage 4.10 |
| Goodhue 1 NW | " | 111 N | 15 W | 17 | 4.50 | " | " | " |
| Goodhue 1-1/2 NW | " | 111 N | 15 W | 18 | 4.20 | " | " | 2d gage 4.50 |
| Goodhue 2 NW | " | 111 N | 15 W | 18 | 4.50 | " | " | " |
| Goodhue 1 N | " | 111 N | 15 W | 16 | 3.50 | " | " | " |
| Goodhue 1-1/2 E | " | 111 N | 15 W | 23 | 4.50 | " | " | " |
| Goodhue 5 S | " | 110 N | 15 W | 16 | 3.80 | Rectangular | " | 2d gage 4.40 |
| Hader 3 S | " | 111 N | 17 W | 24 | 4.70 | Seed | " | " |
| Hader 2 S | " | 110 N | 17 W | 13 | 4.00 | " | " | " |
| Lake City 4 NW | " | 112 N | 13 W | 23 | 5.50 | " | Fair | Gage overflowed |
| Lake City 5 NW | " | 112 N | 13 W | 22 | 6.50 | " | Poor | 1.50 by a.m. 27th |
| Lake City 7 NW | " | 112 N | 13 W | 12 | 5.00 | " | Good | " |
| Lake City 6 NW | " | 112 N | 14 W | 12 | 4.00 | " | " | " |
| Lake City 9 A | " | 111 N | 14 W | 12 | 5.50 | " | " | " |
| Lake City 11 SW | Wabasha | 110 N | 13 W | 18 | 6.00 | " | " | " |
| Lake City 10 SW | " | 110 N | 13 W | 8 | 5.00 | " | Poor | Gage overflowed |
| Lake City 9 S | " | 110 N | 12 W | 21 | 4.50 | " | Good | " |
| Zumbrota 6 NE | Goodhue | 110 N | 15 W | 11 | 5.60 | " | " | 1.10 6-8 a.m. 27th |

Note: All gages except one were seed corn (fence post).

GENERAL SUMMARY OF RIVER AND FLOOD CONDITIONS-Continued

SUPPLEMENTAL PRECIPITATION DATA

TABLE 2

Storm of May 14-15, 1970, South Central Texas

MAY 1970

| Town | LOCATION | Lat. | Long. | STORM TOTAL
14-15 | GENERAL STORM PERIOD | | Type of Gage | Accuracy - Remarks |
|--|----------|-----------|---|----------------------|----------------------|--------------|-------------------------------------|---|
| | | | | | Began | Ended | | |
| San Marcos 1 NW, Tex.
(Court House) | | 29°56'24" | 97°37'18" | 12.0 | Est. 14-6 pm | Est. 15-3 pm | 5 Gal. Bucket | Good |
| San Marcos 2 FNE
(Radio Station KCRV) | | 29°53'46" | 97°54'48" | 14.0 | " | " | 5-inch Gage | " Gage ran over est. 18.0" |
| San Marcos 6.5 NNE | | 29°58'19" | 97°55'15" | 6.0 | " | " | Unknown | Fair Gage ran over |
| San Marcos 5 NW | | 29°56'36" | 98°00'43" | 10.0 | " | " | " | Fair Gage ran over |
| San Marcos 3 WNW | | 29°55'42" | 98°01'23" | 10.0 | " | " | " | Fair " " " |
| San Marcos 8 NW | | 29°57'12" | 98°02'24" | 7.3 | " | " | " | Fair |
| San Marcos 4 WNA | | 29°54'17" | 98°04'33" | 8.0 | " | " | " | Fair |
| San Marcos 10 WNW | | 29°53'48" | 98°01'02" | 8.0 | " | " | " | Fair High intensity rainfall began
6 am on 15th |
| San Marcos 1.2 NW | | 29°53'42" | 97°57'17" | 10.0 | " | " | " | Fair |
| San Marcos 2.2 NE | | 29°54'42" | 97°55'43" | 13.0 | " | " | 4-inch Gage w/
storage container | Excellent - Gage did not overflow |
| San Marcos 1.8 ENE | | 29°54'04" | 97°55'10" | 15.0 | " | " | Unknown | Good Gage did not overflow |
| San Marcos 1 NW | | 29°53'32" | 97°57'00" | 9.2 | " | " | 4-inch Gage | Good Heavy showers, 7 am & 10 am
15th, gage may have overflowed
on one occasion |
| * Read 6:30 pm 5/14 | | 1.30 | Most fell in afternoon | | | | | |
| " 7:15 am 5/15 | | 3.00 | Heavy shower 7:15 pm 5/14, heavy rain began about 6 am 5/15 | | | | | |
| " 10:15 am " | | 4.00 | * Gage full - period of heaviest rainfall | | | | | |
| TOTAL | | .70 | | | | | | |
| 2 IF | | .20 | | | | | | |
| Total | | 9.20 | Total | | | | | |
| Hunter 3-1/4 N | | 29°51'16" | 98°01'34" | 8.0 | Est. 14-6 pm | Est. 15-3 pm | Glass Gage | Good |
| Wimberley 5 SW | | 29°56'15" | 98°07'45" | 5.8 | " | " | " | " |
| Hunter 5 W | | 29°48'20" | 98°02'00" | 7.0 | " | " | " | " |
| Hunter 4 NNE | | 29°51'46" | 98°01'03" | 11.0 | " | " | Bucket | " |
| Wimberley 5-3/4 SSE | | 29°54'50" | 98°06'45" | 5.7 | " | " | Glass Gage | " |
| Wimberley 5.5 SE | | 29°55'03" | 98°07'26" | 8.0 | " | " | " | " |
| Hunter 3-3/4 NNW | | 29°51'42" | 98°02'06" | 6.0 | " | " | 6-inch Glass Gage | Fair |
| Hunter 3.5 NW | | 29°51'20" | 98°03'00" | 6.0 | " | " | Glass Gage 6-inch | Fair |
| San Marcos 2-1/4 SW | | 29°50'48" | 97°58'54" | 6.0 | " | " | " | Gage ran over |
| San Marcos 3 NE | | 29°53'45" | 97°53'40" | 10.75 | " | " | Bucket | Good |
| Kyle 2 W | | 29°59'30" | 97°55'07" | 8.75 | " | " | Unknown | Fair |
| Kyle 3 F | | 29°59'30" | 97°49'30" | 9.0 | " | " | " | " |
| Kyle 4-1/4 N | | 30°00'45" | 97°50'40" | 8.5 | " | " | Glass Gage | " |
| Wimberley 1 NE | | 30°00'15" | 98°05'00" | 5.7 | " | " | Unknown | " |

Note: Bucket Survey made by SCS, Watershed Work Work Plan Staff, San Marcos, Texas

FLOOD STAGE DATA

(All dates in May unless otherwise specified)

MAY 1967

| River and station | Flood stage | Above flood stages -dates | | Crest * | |
|--------------------------------|-------------|---------------------------|---------|---------|---------|
| | | From- | To- | Stage | Date |
| HUDSON BAY DRAINAGE | | | | | |
| Red River of the North Basin | | | | | |
| Maple: Enderlin, N. Dak. | 6 | Apr. 8 | Apr. 11 | 6.7 | Apr. 9 |
| | | Apr. 23 | June 2 | 7.0 | Apr. 27 |
| | | 28 | | 11.1 | 29 |
| Buffalo: Dilworth, Minn. | 12 | Apr. 9 | Apr. 13 | 12.85 | Apr. 12 |
| Wild River: Hendrum, Minn. | T 15 | Apr. 8 | Apr. 13 | 20.4 | Apr. 10 |
| Turtle: Manvel, N. Dak. | 15 | Apr. 10 | Apr. 15 | 17.4 | Apr. 11 |
| Red Lake: Crookston, Minn. | 13 | Apr. 16 | Apr. 17 | 16.2 | Apr. 16 |
| | | Apr. 17 | Apr. 19 | 19.4 | Apr. 18 |
| | | Apr. 24 | Apr. 28 | 19.05 | Apr. 26 |
| Two Harbors: Hallock, Minn. | 802 | Apr. 17 | June 26 | 807.8 | 2 |
| Pembina: Walhalla, N. Dak. | 11 | Apr. 25 | Apr. 29 | 15.0 | Apr. 26 |
| Neche, N. Dak. | 18 | Apr. 27 | 4 | 21.5 | Apr. 27 |
| Roseau: Roseau, Minn. | 15 | Apr. 29 | Apr. 30 | 16.0 | Apr. 29 |
| Des Lacs: Foxholm, N. Dak. | 20 | Apr. 29 | Apr. 30 | 20.7 | Apr. 30 |
| Souris: Sherwood 15 W, N. Dak. | 18 | 12 | 20 | 19.4 | 17 |
| Lake Darling, N. Dak. | 21 | Apr. 30 | 26 | 21.5 | 4 |
| Foxholm 3 E, N. Dak. | 10 | Apr. 30 | June 9 | 14.5 | 21 |
| Minot 4 NW, N. Dak. | 14 | Apr. 30 | 28 | 17.0 | 12 |
| Minot Broadway Br., N. Dak. | 1,550 | 1 | 4 | 1550.8 | 2 |
| Logan, N. Dak. | 1,533 | Apr. 9 | 27 | 1551.8 | 12 |
| | | 29 | 30 | 1536.25 | 13 |
| Velva 8 E, N. Dak. | 1,505 | Apr. 26 | 29 | 1506.25 | 12 |
| Bantry 8 E, N. Dak. | T 11 | 6 | July 3 | 13.2 | 22 |
| Westhope 7 SSE, N. Dak. | T 10 | 3 | July 9 | 13.4 | June 6 |
| Red River of the North: | | | | | |
| Grand Forks, N. Dak. | 28 | Apr. 10 | 3 | 34.4 | Apr. 13 |
| Oslo, Minn. | 28 | Apr. 11 | 4 | 33.4 | Apr. 14 |
| Drayton, N. Dak. | 32 | Apr. 16 | 10 | 38.2 | Apr. 29 |
| Pembina, N. Dak. | 42 | Apr. 19 | 10 | 46.55 | 2 |
| ST LAWRENCE DRAINAGE | | | | | |
| Lake Erie | | | | | |
| St. Joseph: | | | | | |
| Montpelier, Ohio | 10 | 15 | 17 | 10.7 | 16 |
| EAST GULF OF MEXICO DRAINAGE | | | | | |
| Black Warrior: | | | | | |
| Warrior L&D, Ala. | 30 | Apr. 28 | 1 | 33.5 | Apr. 30 |
| Tombigbee: | | | | | |
| Aberdeen, Miss. | 34 | Apr. 27 | 1 E | 38.0 | Apr. 28 |
| Columbus, Miss. | 29 | Apr. 29 | 1 | 31.2 | Apr. 30 |
| Gainesville, Ala. | 36 | Apr. 26 | 9 | 43.3 | 4 |
| Demopolis, L&D, Ala. | 48 | Apr. 29 | 8 | 52.5 | 1-2 |
| Jackson, L&D, Ala. | 43 | Apr. 25 | 8 | 48.1 | 6 |
| Pearl: Jackson, Miss. | 18 | 1 | 12 | 27.4 | 3 |
| Monticello, Miss. | 19 | 4 | 6 | 19.1 | 5 |
| Bogalusa, La. | 15 | 4 | 17 | 18.4 | 7 |
| Pearl River, La. | 12 | 8 | 15 | 12.6 | 10 |
| MISSISSIPPI SYSTEM | | | | | |
| Upper Mississippi Basin | | | | | |
| Zumbro: Zumbro Falls, Minn. | 18 | 28 | 28 | 21.4 | 28 |
| Theilman, Minn. | 38 | 28 | 28 | 39.8 | 28 |
| Iowa: Marshalltown, Iowa | 13 | 14 | 14 | 15.0 | 14 |
| Skunk: Ames, Iowa | 10 | 13 | 13 | 10.2 | 13 |
| Oskaloosa, Iowa | 15 | 15 | 18 | 18.5 | 17 |
| North Raccoon: | | | | | |
| Jefferson, Iowa | 10 | 16 | 17 | 11.6 | 16 |
| South Raccoon: | | | | | |
| Redfield, Iowa | 11 | 15 | 11 | 14.5 | 14 |
| North: Norwalk, Iowa | 18 | 14 | 17 | 21.1 | 15 |
| MISSISSIPPI SYSTEM (cont'd) | | | | | |
| Upper Mississippi Basin | | | | | |
| Des Moines: Saylorville, Iowa | 15 | 16 | 19 | 17.3 | 17 |
| Des Moines, Iowa (SE 14th St.) | 21 | 17 | 18 | 21.1 | 18 |
| Fox: Waverly, Mo. | 15 | 14 | 17 | 18.25 | 14 |
| Salt: New London, Mo. | 19 | 2 | 3 | 20.0 | 2 |
| | | 14 | 18 | 24.45 | 18 |
| Cuivre: Troy, Mo. | T 21 | Apr. 30 | 3 | 25.7 | 1 |
| | | 15 | 18 | 24.7 | 15 |
| Old Monroe, Mo. | 24 | 1 | 4 | 29.2 | 2 |
| | | 16 | 19 | 27.0 | 17 |
| Iroquois: Chebanse (nr.), Ill. | 14 | 14 | 18 | 16.55 | 15 |
| Kankakee: Momence, Ill. | 5 | 14 | 16 | 5.55 | 15 |
| Fox: Dayton, Ill. | 12 | 1 | 16 | 12.6 | 1 |
| | | | | 13.2 | 14 |
| | | | | 12.9 | 15 |
| Vermilion: Lowell, Ill. | 10 | 14 | 17 | 13.3 | 15 |
| Spoon: Seville, Ill. | 22 | 15 | 19 | 26.6 | 17 |
| Sangamon: Riverton, Ill. | 18 | Apr. 22 | 4 | 22.9 | 2 |
| Petersburg, Ill. | 497 | 1 | 5 | 500.1 | 3 |
| Oakford, Ill. | 471 | 1 | 5 | 473.6 | 3 |
| Lamoine: Ripley, Ill. | 22 | 15 | 20 | 24.7 | 18 |
| Illinois: Morris, Ill. | 13 | 1 | 2 | 14.7 | 1 |
| | | 14 | 21 | 22.5 | 15 |
| LaSalle, Ill. | 20 | 14 | June 9 | 30.25 | 16 |
| | | 1 | 7 | 23.55 | 2 |
| Peoria, Ill. | 18 | 1 | 10 | 20.2 | 4 |
| | | 14 | June 13 | 25.9 | 19 |
| Havana, Ill. | 14 | Apr. 10 | June 30 | 22.15 | June 4 |
| | | | | 19.2 | June 6 |
| Beardstown, Ill. | 14 | Apr. 18 | June 30 | 23.7 | 21 |
| | | | | 21.1 | June 5 |
| Meredosia, Ill. | 10 | Apr. 12 | June 13 | 18.8 | Apr. 30 |
| | | | | 22.6 | 22 |
| Bourbeuse: Union, Mo. | 15 | 3 | 5 | 18.4 | 3 |
| Big: Byrnesville, Mo. | 16 | 2 | 3 | 17.6 | 2 |
| Meramec: Pacific, Mo. | 11 | 1 | 5 | 16.8 | 4 |
| Eureka, Mo. | 16 | 1 | 5 | 17.55 | 3 |
| Valley Park, Mo. | 16 | 3 | 5 | 18.25 | 3 |
| Kaskaskia: Vandalia, Ill. | 18 | Apr. 20 | 4 | 26.0 | Apr. 21 |
| | | | | 23.4 | Apr. 25 |
| Carlyle Dam, Ill. | 21 | Apr. 30 | 30 | 25.3 | 9 |
| Big Muddy: Murphysboro, Ill. | 16 | Apr. 21 | 16 | 23.5 | Apr. 25 |
| | | 17 | 23 | 18.3 | Apr. 20 |
| Mississippi: | | | | | |
| Louisiana, Mo. | 15 | 14 | 20 | 17.25 | 18 |
| Clarksville, Mo. | 25 | 15 | 21 | 27.4 | 18 |
| Winfield, Mo. | 26 | 16 | 21 | 28.25 | 19 |
| Grafton, Ill. | 18 | 2 | 5 | 20.43 | 3 |
| | | 15 | 24 | 22.6 | 19 |
| Alton, Ill. | 21 | 2 | 5 | 23.85 | 3 |
| | | 15 | 23 | 25.9 | 18 |
| St. Louis, Mo. | 30 | 17 | 20 | 30.9 | 18 |
| Chester, Ill. | 27 | 3 | 6 | 30.1 | 4 |
| | | 17 | 24 | 30.9 | 19 |
| Cape Girardeau, Mo. | 32 | Apr. 24 | Apr. 26 | 32.85 | Apr. 25 |
| | | 3 | 8 | 35.7 | 5 |
| | | 19 | 23 | 35.0 | 20 |
| Thebes, Ill. | 33 | 3 | 7 | 36.0 | 5 |
| | | 19 | 22 | 34.8 | 21 |
| Missouri Basin | | | | | |
| Knife: Hazen, N. Dak. | 21 | 9 | 12 | 23.8 | 11 |
| Heart: Mandan, N. Dak. | 17 | 10 | 11 | 18.5 | 11 |
| Cannonball: Breien, N. Dak. | 8 | 10 | 13 | 18.93 | 10 |
| Rock: Rock Valley, Iowa | 11 | 28 | 29 | 14.1 | 28 |
| Big Sioux: Hawarden, Iowa | 15 | 29 | 30 | 15.3 | 30 |
| Akron, Iowa | 16 | 30 | 31 | 16.3 | 30 |

FLOOD STAGE DATA

(All dates in May unless otherwise specified)

MAY 1970

| River and station | Flood stage | Above flood stages -dates | | Crest * | |
|-------------------------------|-------------|---------------------------|-------|---------|-------------|
| | | From-- | To-- | Stage | Date |
| MISSISSIPPI SYSTEM (cont'd) | | | | | |
| Missouri Basin (cont'd) | | | | | |
| West Branch Floyd: | | | | | |
| Struble, Iowa | 14 | 27 | 28 | 14.65 | 28 |
| Little Platte: | | | | | |
| Smithville, Mo. | 24 | 11 | 11 | 24.9 | 11 |
| Republican: | | | | | |
| Clay Center, Kans. | 15 | 9 | 9 | 16.2 | 9 |
| Black Vermillion: | | | | | |
| Frankfort, Kans. | 19 | 10 | 11 | 27.9 | 10 |
| | | 23 | 24 | 22.6 | 24 |
| Fancy Creek: | | | | | |
| Winkler, Kans. | 11 | 9 | 9 | 14.2 | 9 |
| Vermillion Creek: | | | | | |
| Wamego 11 NE, Kans. | 24 | 11 | 11 | 28.3 | 11 |
| Soldier Creek: | | | | | |
| Della 5 SE, Kans. | 17 | 11 | 11 | 18.75 | 11 |
| Delaware: Muscotah, Kans. | 25 | 10 | 11 | 26.75 | 10 |
| Stranger Creek: | | | | | |
| Easton, Kans. | 15 | 11 | 11 | 15.15 | 11 |
| Little Blue: | | | | | |
| Lake City, Mo. | 18 | 15 | 16 | 20.0 | 15 |
| Grand: | | | | | |
| Sumner, Mo. | 26 | 13 | 18 | 31.9 | 16 |
| Chillicothe, Mo. | 24 | 14 | 15 | 27.1 | 15 |
| Brunswick, Mo. | 12 | 15 | 18 | 14.6 | 16 |
| Chariton: Novinger, Mo. | | | | | |
| Prairie Hill, Mo. | 15 | 13 | 13 | 15.6 | 13 |
| | | 14 | 17 | 19.7 | 15 |
| Lamine: Clifton City, Mo. | 19 | Apr. 29 | 2 | 26.85 | 1 |
| | | 15 | 16 | 22.6 | 15 |
| Blackwater: | | | | | |
| Valley City, Mo. | 22 | Apr. 30 | 1 | 26.85 | 1 |
| | | 14 | 16 | 25.25 | 14 |
| Blue Lick, Mo. | 25 | 14 | 19 | 30.0 | 17 |
| Petite Saline: | | | | | |
| Boonville, Mo. | 16 | 14 | 15 | 24.4 | 15 |
| Moreau: Jefferson City, Mo. | | | | | |
| | 20 | 1 | 3 | 27.8 | 1 |
| | | 15 | 17 | 26.9 | 16 |
| Marmaton: Nevada, Mo. | | | | | |
| | 22 | 1 | 5 | 28.1 | 3 |
| | | 15 | 18 | 27.0 | 16 |
| Big Creek: | | | | | |
| Blairstown, Mo. | 20 | 15 | 16 | 21.9 | 15 |
| South Grand: | | | | | |
| Urich, Mo. | 22 | 15 | 17 | 23.2 | 16 |
| Little Osage: | | | | | |
| Horton, Mo. | 23 | 2 | 5 | 23.9 | 3 |
| Osage: Warsaw, Mo. | | | | | |
| Schell City, Mo. | 25 | Apr. 30 | 6 | 27.3 | 4 |
| | | 16 | 19 | 27.2 | 17 |
| Osceola, Mo. | 22 | Apr. 30 | 4 | 25.7 | 1 |
| Lakeside, Mo. | 60 | 1 | 6 | 61.8 | 2 |
| St. Thomas, Mo. | 23 | 1 | 6 | 28.9 | 3 |
| Missouri: Boonville, Mo. | | | | | |
| Jefferson City, Mo. | 23 | 15 | 17 | 25.2 | 16 |
| Hermann, Mo. | 21 | 1 | 6 | 24.8 | 1 |
| | | 14 | 19 | 27.2 | 16 |
| St. Charles, Mo. | 25 | 1 | 6 | 29.0 | 2 |
| | | 15 | 21 | 30.1 | 17 |
| Ohio Basin | | | | | |
| Rolling Fork: | | | | | |
| Boston, Ky. | 40 | Apr. 29 | 2 | 48.6 | Apr. 30 |
| MISSISSIPPI SYSTEM (cont'd) | | | | | |
| Ohio Basin- (cont'd) | | | | | |
| Embarrass: Ste. Marie, Ill. | 18 | Apr. 21 | | 20.7 | Apr. 21 |
| Lawrenceville, Ill. | T 11 | Apr. 21 | 5 | 20.1 | Apr. 28 |
| White: Elliston, Ind. | 18 | Apr. 24 | | 23.1 | Apr. 27 |
| Edwardsport, Ind. | 15 | Apr. 24 | May 3 | 20.0 | Apr. 29 |
| Petersburg, Ind. | 16 | Apr. 25 | May 5 | 21.4 | May 1 |
| Hazelton, Ind. | 16 | Apr. 25 | May 6 | 22.2 | May 1 |
| Little Wabash: | | | | | |
| Wilcox, Ill. | 16 | Apr. 20 | 12 | 22.5 | Apr. 26 |
| Carmi, Ill. | 27 | Apr. 27 | 4 | 33.8 | 2 |
| Wabash: Lafayette, Ind. | 11 | Apr. 20 | 2 | 18.7 | Apr. 21 |
| | | 15 | 19 | 16.6 | 15 |
| Covington, Ind. | 16 | Apr. 20 | 1 | 22.8 | Apr. 22 |
| | | 15 | 19 | 19.95 | 16 |
| Montezuma, Ind. | 14 | Apr. 20 | 5 | 24.7 | Apr. 25 |
| | | 15 | 20 | 18.6 | 18 |
| | | 26 | 26 | 15.5 | 26 |
| Clinton, Ind. | 18 | Apr. 20 | 2 | 24.05 | Apr. 25 |
| Terre Haute, Ind. | 14 | Apr. 20 | 5 | 21.2 | Apr. 25 |
| | | 18 | 21 | 16.2 | 19 |
| Hutsonville, Ill. | T 20 | Apr. 24 | 3 | 23.9 | Apr. 26, 27 |
| Riverton, Ind. | 18 | Apr. 24 | 3 | 21.2 | Apr. 28 |
| Vincennes, Ind. | 16 | Apr. 25 | 6 | 23.2 | Apr. 28 |
| Mt. Carmel, Ill. | 17 | Apr. 26 | 7 | 24.6 | Apr. 30, 1 |
| | | | | | |
| New Harmony, Ind. | 15 | Apr. 27 | 8 | 18.5 | 2 |
| Cumberland: Barbourville, Ky. | 27 | Apr. 28 | 1 | 35.8 | Apr. 29 |
| Williamsburg, Ky. | 21 | Apr. 29 | 1 | 23.2 | Apr. 29 |
| Tennessee: Whitesburg, Ala. | 560 | Apr. 26 | 2 | 561.2 | Apr. 29 |
| Paducah, Ky. | 320 | Apr. 30 | 13 | 328.95 | 3 |
| Ohio: Tell City, Ind. | 38 | Apr. 28 | 4 | #40.1 | Apr. 30 |
| Dam 47, Newburgh, Ind. | 38 | Apr. 27 | 5 | #41.9 | Apr. 30 |
| Dam 48, Cypress, Ind. | 38 | Apr. 28 | 7 | 41.0 | Apr. 30 |
| Mt. Vernon, Ind. | 35 | Apr. 28 | 8 | 38.1 | Apr. 30 |
| Dam 49, Uniontown, Ky. | 37 | Apr. 28 | 8 | 39.7 | Apr. 30 |
| Shawneetown, Ill. | 33 | Apr. 27 | 10 | 39.1 | Apr. 30 |
| Dam 50, Fords Ferry, Ky. | 34 | Apr. 27 | 11 | 40.9 | Apr. 30 |
| Dam 51, Golconda, Ill. | 40 | 2 | 8 | 43.0 | 5 |
| Paducah, Ky. | 39 | 2 | 9 | 40.9 | 3 |
| Dam 52, Brookport, Ill. | 37 | Apr. 29 | 11 | 42.9 | 3 |
| Dam 53, Grand Chain, Ill. | 42 | Apr. 27 | 12 | 49.4 | 6-7 |
| Cairo, Ill. | 40 | Apr. 24 | 14 | 49.2 | 7 |
| | | 19 | 21 | 40.3 | 21 |
| White Basin | | | | | |
| Black: Pocahontas, Ark. | 17 | Apr. 25 | 9 | 18.6 | Apr. 27 |
| | | | | 19.7 | 3 |
| Black Rock, Ark. | 14 | Apr. 24 | 15 | 23.0 | Apr. 26 |
| | | | | 22.2 | 2 |
| Cache: Patterson, Ark. | 7 | Apr. 24 | 20 | 9.7 | 3 |
| White: Augusta, Ark. | 32 | 3 | 3 | 32.05 | 3 |
| Georgetown, Ark. | 21 | Apr. 27 | 14 | 23.0 | 2 |
| Des Arc, Ark. | 24 | Apr. 30 | 11 | 26.0 | 4 |
| Clarendon, Ark. | 26 | Apr. 29 | 25 | 29.2 | 6 |
| St. Charles, Ark. | 25 | 3 | 26 | 27.2 | 11 |
| Arkansas Basin | | | | | |
| Little Caney: | | | | | |
| Copan, Okla. | 21 | Apr. 29 | 2 | 22.7 | 1 |
| Caney: Ramona, Okla. | 27 | Apr. 30 | 3 | 29.15 | 2 |
| Bird Creek: Sperry, Okla. | 21 | Apr. 30 | 3 | 28.6 | 1 |
| Owasso, Okla. | 24 | Apr. 30 | 3 | 31.75 | 2 |
| Verdigris: Lenapah, Okla. | 30 | Apr. 30 | 2 | 31.5 | 1 |

FLOOD STAGE DATA

(All dates in May unless otherwise specified)

MAY 1954

| River and station | Flood stage | Above flood stages
-dates | | Crest + | | |
|--------------------------------|-------------|------------------------------|------|---------|------------|----|
| | | From-- | To-- | Stage | Date | |
| MISSISSIPPI SYSTEM (Continued) | | <i>Ft</i> | | | <i>Ft.</i> | |
| Arkansas Basin (Continued) | | | | | | |
| Spring: Waco, Mo. | 19 | Apr. 30 | 2 | 22.7 | | 1 |
| Quapaw, Okla. | 19 | Apr. 30 | 3 | 24.2 | | 2 |
| Elk: Pitt City, Okla. | 15 | Apr. 30 | 1 | 21.0 | | 1 |
| Neosho: Commerce, Okla. | 15 | Apr. 30 | 3 | 19.1 | | 2 |
| | | 15 | 17 | #18.3 | | 16 |
| Illinois: | | | | | | |
| Watts, Okla. | 13 | D | D | 19.4 | | 1 |
| Tahlequah, Okla. | 11 | Apr. 30 | 3 H | 14.5 | | 2 |
| | | 10 | 10 | #11.9 | | 10 |
| Poteau: Panama, Okla. | 24 | 1 | 2 | 26.3 | | 1 |
| Fourche La Fave: | | | | | | |
| Houston, Ark. | 25 | Apr. 25 | 4 | 29.35 | Apr. 27 | 2 |
| | | | | 26.7 | | |
| Arkansas: | | | | | | |
| Van Buren, Ark. | 21 | Apr. 20 | 21 | 24.7 | | 1 |
| <u>Red Basin</u> | | | | | | |
| Blue: Blue, Okla. | 21 | 1 | 1 | 21.8 | | 1 |
| Clear Boggy Creek: | | | | | | |
| Caney, Okla. | 19 | 1 | 1 | 20.3 | | 1 |
| Sulphur: Hagansport, Tex. | 44 | Apr. 26 | D | 46.8 | Apr. 27 | |
| Naples, Tex. | 22 | Apr. 25 | 8 | 29.6 | Apr. 30 | |
| Ouachita: | | | | | | |
| Camden, Ark. | 26 | Apr. 22 | 7 | 32.1 | | 1 |
| <u>Lower Mississippi Basin</u> | | | | | | |
| St. Francis: | | | | | | |
| Fisk, Mo. | 20 | Apr. 21 | 3 | 23.8 | Apr. 24 | |
| St. Francis, Ark. | 18 | Apr. 24 | 16 | 21.2 | Apr. 27-28 | |
| Big Black: | | | | | | |
| Bovina, Miss. | 28 | Apr. 28 | 13 | 34.8 | | 4 |
| Mississippi: | | | | | | |
| New Madrid, Mo. | 34 | 2 | 12 | 38.1 | | 7 |
| Caruthersville, Mo. | 32 | Apr. 28 | 15 | 37.2 | | 8 |

| River and station | Flood stage | Above flood stages
-dates | | Crest * | |
|---|-------------|------------------------------|---------|---------|---------|
| | | From-- | To-- | Stage | Date |
| WEST GULF OF MEXICO DRAINAGE | | Ft. | | Ft. | |
| Sabine: Emory, Tex. | 12 | Apr. 25 | 5 | 13.5 | Apr. 29 |
| Mineola, Tex. | 14 | Apr. 26 | 10 | 17.2 | Apr. 29 |
| Gladewater, Tex. | 26 | 3 | 10 | 28.9 | 5 |
| Trinity: Dallas, Tex. | 30 | 1 | 1 | 31.2 | 1 |
| | | 31 | June 1 | 31.4 | June 1 |
| Trinidad, Tex. | 28 | Apr. 29 | 5 | 35.2 | 1 |
| Long Lake, Tex. | 35 | 5 | 7 | 35.3 | 6 |
| San Jacinto: | | | | | |
| Lake Houston, Tex. | 44.5 | Apr. 9 | 1/ | 45.3 | Apr. 12 |
| | | | | 45.3 | 17 |
| Navidad: Ganado, Tex. | 21 | 23 | June 1 | 26.85 | 26 |
| Guadalupe: | | | | | |
| Gonzales, Tex. | 21 | 17 | 18 | 27.2 | 17 |
| Victoria, Tex. | 21 | 20 | 21 | 21.3 | 20 |
| Atascosa: Whitsett, Tex. | 20 | 28 | June 3 | 30.9 | June 1 |
| Frio: Derby 1 S., Tex. | 6 | 16 | 18 | 8.8 | 17 |
| Calliham, Tex. | 12 | 25 | 26 | 13.7 | 25 |
| | | 30 | 30 | 12.6 | 30 |
| Nueces: Tilden 11 S, Tex. | 14 | 30 | June 7 | 16.0 | 31 |
| Three Rivers 2 S, Tex. | 25 | 29 | June 6 | 36.9 | June 1 |
| Mathis 4 SW, Tex. | 15 | 26 | June 11 | 28.4 | June 2 |
| Calallen, Tex. | 7 | 28 | June 13 | 9.2 | June 1 |
| PACIFIC SLOPE DRAINAGE | | | | | |
| Columbia Basin | | | | | |
| Henry's Fork: | | | | | |
| St. Anthony, Idaho | 7 | 26 | 29 | 7.3 | 29 |
| Rexburg, Idaho | 9 | 21 | 31 | 10.2 | 30 |
| * Provisional | | | | | |
| # Highest Stage Observed | | | | | |
| 1/ Continued at the end of month | | | | | |
| D Data not available | | | | | |
| E Estimated | | | | | |
| H High Water Mark | | | | | |
| T Tentative | | | | | |
| — Exceeded Previous Maximum Stage of record | | | | | |

RAWINSONDE DATA

Average monthly values

MAY 1970

| ALBUQUERQUE, N. MEX.
839 MB | | | | | | | | | | | | AMARILLO, TEXAS
891 MB | | | | | | | | | | | | ANCHORAGE, ALASKA
1007 MB | | | | | | | | | | | | ANNETTE, ALASKA
1013 MB | | | | | | | | | | | |
|-----------------------------------|----|-------|--------|--------|----|------|----|-------|-------|-------|----|-----------------------------------|----|-------|-------|-------|----|------|----|-------|-------|-------|-----|-----------------------------------|-----|-------|-------|-------|-----|------|-----|-----|-----|-----|-----|-----------------------------------|-----|-----|-----|--|--|--|--|--|--|--|--|
| Standard pressure
surface (mb) | | | | | | | | | | | | Standard pressure
surface (mb) | | | | | | | | | | | | Standard pressure
surface (mb) | | | | | | | | | | | | Standard pressure
surface (mb) | | | | | | | | | | | |
| Dynamic height | | | | | | | | | | | | Dynamic height | | | | | | | | | | | | Dynamic height | | | | | | | | | | | | Dynamic height | | | | | | | | | | | |
| Temperature | | | | | | | | | | | | Temperature | | | | | | | | | | | | Temperature | | | | | | | | | | | | Temperature | | | | | | | | | | | |
| Dew Point | | | | | | | | | | | | Dew Point | | | | | | | | | | | | Dew Point | | | | | | | | | | | | Dew Point | | | | | | | | | | | |
| Direction | | | | | | | | | | | | Direction | | | | | | | | | | | | Direction | | | | | | | | | | | | Direction | | | | | | | | | | | |
| Speed | | | | | | | | | | | | Speed | | | | | | | | | | | | Speed | | | | | | | | | | | | Speed | | | | | | | | | | | |
| No of observations | | | | | | | | | | | | No of observations | | | | | | | | | | | | No of observations | | | | | | | | | | | | No of observations | | | | | | | | | | | |
| 1000 | 31 | 86 | 11.2 | 8.1 | 27 | 1.0 | 31 | 1019 | 11.6 | -3.4 | 13 | 2.3 | 31 | 1095 | 13.0 | 4.5 | 21 | 3.6 | 31 | 45 | 6.0 | 1.1 | 18 | 2.2 | 31 | 37 | 7.7 | 5.8 | 13 | 2.2 | 31 | 144 | 7.0 | 4.5 | 14 | 3.2 | 3.2 | | | | | | | | | | |
| 950 | 31 | 84 | 10.7 | 0.5 | 26 | 1.4 | 31 | 1116 | | | | 3.1 | 31 | 1112 | | | | 4.5 | 21 | 3.6 | 31 | 104 | | 1.8 | 2.3 | 31 | 144 | 7.0 | 4.5 | 14 | 3.2 | 3.2 | 31 | 144 | 7.0 | 4.5 | 14 | 3.2 | 3.2 | | | | | | | | |
| 900 | 31 | 590 | 10.4 | 4.6 | 28 | 3.6 | 31 | 556 | | | | 5.1 | 31 | 521 | | | | 6.0 | 24 | 4.7 | -1.9 | 17 | 1.8 | 31 | 144 | 7.0 | 4.5 | 14 | 3.2 | 3.2 | 31 | 144 | 7.0 | 4.5 | 14 | 3.2 | 3.2 | | | | | | | | | | |
| 850 | 31 | 1042 | 9.0 | 1.6 | 29 | 5.1 | 31 | 1027 | | | | 6.1 | 31 | 1016 | | | | 6.0 | 24 | 4.7 | -1.9 | 17 | 1.8 | 31 | 144 | 7.0 | 4.5 | 14 | 3.2 | 3.2 | 31 | 144 | 7.0 | 4.5 | 14 | 3.2 | 3.2 | | | | | | | | | | |
| 800 | 31 | 1514 | - | -3 | 30 | 7.2 | 31 | 1508 | | | | 7.1 | 31 | 1496 | 15.3 | 2.8 | 23 | 8.3 | 31 | 1421 | -1.1 | -5.9 | 09 | 2.2 | 31 | 1460 | -1.8 | -3.1 | 18 | 8.3 | | | | | | | | | | | | | | | | | |
| 750 | 31 | 2032 | 5.5 | -5.3 | 25 | 8.1 | 31 | 2018 | 13.1 | -5.2 | 22 | 2.2 | 31 | 2009 | 13.9 | -2.4 | 25 | 6.0 | 31 | 1901 | -4.5 | -9.0 | 09 | 2.2 | 31 | 1941 | -4.5 | -7.2 | 19 | 8.2 | | | | | | | | | | | | | | | | | |
| 700 | 31 | 2532 | 2.8 | -7.5 | 28 | 9.9 | 31 | 2555 | 10.1 | -7.8 | 27 | 3.9 | 31 | 2552 | 10.6 | -6.3 | 27 | 5.3 | 31 | 2409 | -7.7 | -12.8 | 11 | 4.0 | 31 | 2445 | -7.4 | -13.7 | 20 | 8.1 | | | | | | | | | | | | | | | | | |
| 650 | 31 | 3032 | -4.4 | -10.4 | 33 | 10.7 | 31 | 3127 | 6.0 | -10.8 | 28 | 6.1 | 31 | 3121 | 6.3 | -9.2 | 27 | 5.4 | 31 | 2940 | -10.9 | -17.9 | 11 | 4.2 | 31 | 2982 | -10.4 | -16.9 | 20 | 8.8 | | | | | | | | | | | | | | | | | |
| 600 | 31 | 3532 | -3.4 | -10.4 | 33 | 11.7 | 31 | 3724 | 1.3 | -14.0 | 28 | 5.3 | 31 | 3739 | -8.5 | -11.5 | 28 | 8.9 | 31 | 3703 | -7.6 | -12.7 | 13 | 4.8 | 31 | 3702 | -7.6 | -12.7 | 13 | 4.8 | | | | | | | | | | | | | | | | | |
| 550 | 31 | 4032 | -0.8 | -20.8 | 28 | 12.4 | 31 | 4038 | -9.0 | -17.2 | 28 | 6.1 | 31 | 4063 | -3.3 | -15.9 | 27 | 5.9 | 31 | 4106 | -18.7 | -20.7 | 12 | 3.7 | 31 | 4135 | -16.9 | -25.3 | 21 | 10.5 | | | | | | | | | | | | | | | | | |
| 500 | 31 | 4532 | -15.4 | -29.7 | 28 | 13.1 | 31 | 5045 | -8.9 | -21.7 | 28 | 8.0 | 31 | 5036 | -8.5 | -20.8 | 27 | 6.1 | 31 | 4744 | -23.2 | -31.3 | 11 | 3.6 | 31 | 4801 | -21.2 | -30.5 | 21 | 11.6 | | | | | | | | | | | | | | | | | |
| 450 | 31 | 5032 | -10.9 | -25.6 | 28 | 13.5 | 31 | 5129 | -9.4 | -27.9 | 28 | 9.4 | 31 | 5177 | -14.0 | -26.2 | 27 | 6.3 | 31 | 5439 | -28.2 | -36.5 | 10 | 3.1 | 31 | 5501 | -25.7 | -33.8 | 22 | 13.7 | | | | | | | | | | | | | | | | | |
| 400 | 31 | 5532 | -20.3 | -33.6 | 27 | 17.0 | 31 | 6565 | -19.9 | -34.4 | 26 | 10.6 | 31 | 6562 | -20.1 | -34.6 | 26 | 6.9 | 31 | 6182 | -33.9 | -40.8 | 10 | 2.6 | 31 | 6254 | -31.0 | -37.5 | 22 | 13.6 | | | | | | | | | | | | | | | | | |
| 350 | 31 | 6032 | -26.3 | -39.9 | 27 | 16.5 | 31 | 7435 | -26.4 | -40.2 | 26 | 10.4 | 31 | 7439 | -26.5 | -39.4 | 27 | 8.9 | 31 | 7000 | -40.0 | -45.6 | 10 | 1.8 | 31 | 7085 | -36.6 | -42.7 | 22 | 15.9 | | | | | | | | | | | | | | | | | |
| 300 | 31 | 6532 | -33.6 | -45.2 | 27 | 18.4 | 30 | 8185 | -33.7 | -45.8 | 26 | 10.7 | 31 | 8281 | -33.7 | -45.8 | 26 | 10.4 | 31 | 7899 | -46.6 | -51.2 | 10 | 2.1 | 31 | 7994 | -42.7 | -44.0 | 22 | 15.4 | | | | | | | | | | | | | | | | | |
| 250 | 31 | 7032 | -41.6 | -52.2 | 27 | 18.2 | 30 | 9447 | -40.7 | -51.7 | 26 | 10.7 | 31 | 9444 | -41.7 | -51.0 | 25 | 11.9 | 31 | 8909 | -51.9 | -54.0 | 10 | 2.4 | 31 | 9021 | -49.1 | -52.2 | 22 | 15.9 | | | | | | | | | | | | | | | | | |
| 200 | 31 | 7532 | -49.9 | -58.9 | 28 | 20.0 | 30 | 12083 | -59.4 | -60.0 | 26 | 16.3 | 31 | 12078 | -59.7 | -60.0 | 25 | 14.8 | 31 | 11085 | -52.6 | -56.0 | 02 | 2.4 | 31 | 12026 | -52.8 | -54.1 | 23 | 12.2 | | | | | | | | | | | | | | | | | |
| 150 | 31 | 8032 | -58.1 | -62.1 | 28 | 18.7 | 30 | 12915 | -61.0 | -61.0 | 26 | 15.8 | 31 | 12907 | -62.2 | -62.2 | 25 | 17.7 | 31 | 12419 | -48.1 | -50.0 | 30 | 5.0 | 31 | 12519 | -50.5 | -52.5 | 23 | 7.5 | | | | | | | | | | | | | | | | | |
| 100 | 31 | 8532 | -66.1 | -66.1 | 28 | 16.2 | 29 | 13876 | -61.3 | -61.3 | 26 | 14.5 | 31 | 13860 | -61.4 | -61.4 | 26 | 15.5 | 31 | 13436 | -48.0 | -50.0 | 30 | 1.6 | 31 | 13522 | -50.1 | -52.1 | 24 | 6.8 | | | | | | | | | | | | | | | | | |
| 50 | 31 | 9032 | -74.9 | -74.9 | 27 | 17.1 | 29 | 15007 | -61.4 | -61.4 | 26 | 13.9 | 31 | 14992 | -61.2 | -61.2 | 26 | 13.5 | 31 | 14636 | -48.9 | -50.0 | 23 | 1.1 | 31 | 14712 | -50.0 | -52.0 | 23 | 9.9 | | | | | | | | | | | | | | | | | |
| 0 | 31 | 9532 | -83.7 | -83.7 | 26 | 15.4 | 29 | 16392 | -61.2 | -61.2 | 26 | 9.9 | 30 | 16374 | -62.2 | -62.2 | 26 | 11.2 | 31 | 16101 | -48.9 | -50.0 | 19 | 1.2 | 31 | 16105 | -50.8 | -52.8 | 22 | 4.5 | | | | | | | | | | | | | | | | | |
| | 31 | 10032 | -92.5 | -92.5 | 26 | 14.6 | 29 | 17749 | -62.9 | -62.9 | 25 | 5.4 | 29 | 17749 | -62.9 | -62.9 | 25 | 7.0 | 31 | 17569 | -48.4 | -50.0 | 14 | 1.3 | 31 | 17619 | -50.8 | -52.8 | 22 | 3.5 | | | | | | | | | | | | | | | | | |
| | 31 | 10532 | -101.3 | -101.3 | 25 | 14.1 | 28 | 18576 | -61.7 | -61.7 | 25 | 3.4 | 28 | 18576 | -61.7 | -61.7 | 25 | 4.4 | 31 | 18448 | -48.1 | -50.0 | 14 | 1.3 | 31 | 18488 | -50.8 | -52.8 | 22 | 3.1 | | | | | | | | | | | | | | | | | |
| | 31 | 11032 | -110.1 | -110.1 | 25 | 13.8 | 28 | 19534 | -60.0 | -60.0 | 24 | 3.2 | 28 | 19534 | -60.0 | -60.0 | 24 | 3.1 | 31 | 19465 | -47.8 | -50.0 | 14 | 1.6 | 31 | 19493 | -50.5 | -52.5 | 22 | 2.1 | | | | | | | | | | | | | | | | | |
| | 31 | 11532 | -118.9 | -118.9 | 24 | 12.4 | 28 | 20695 | -59.4 | -59.4 | 24 | 2.1 | 28 | 20695 | -59.4 | -59.4 | 24 | 1.8 | 31 | 20695 | -47.7 | -50.0 | 14 | 1.6 | 31 | 20695 | -50.5 | -52.5 | 22 | 2.1 | | | | | | | | | | | | | | | | | |
| | 31 | 12032 | -127.7 | -127.7 | 24 | 11.9 | 28 | 22092 | -58.2 | -58.2 | 24 | 0.8 | 28 | 22092 | -58.2 | -58.2 | 24 | 0.8 | 31 | 22092 | -47.8 | -50.0 | 14 | 1.2 | 31 | 22144 | -49.9 | -51.9 | 22 | 1.3 | | | | | | | | | | | | | | | | | |
| | 31 | 12532 | -136.5 | -136.5 | 24 | 11.4 | 28 | 23940 | -52.1 | -52.1 | 24 | 0.8 | 28 | 23940 | -52.1 | -52.1 | 24 | 0.8 | 31 | 24033 | -47.3 | -50.0 | 14 | 2.7 | 31 | 24022 | -49.8 | -51.8 | 22 | 2.5 | | | | | | | | | | | | | | | | | |
| | 31 | 13032 | -145.3 | -145.3 | 24 | 11.0 | 28 | 25126 | -50.0 | -50.0 | 24 | 0.8 | 28 | 25126 | -50.0 | -50.0 | 24 | 0.8 | 31 | 25240 | -46.9 | -50.0 | 14 | 4.0 | 31 | 25214 | -48.6 | -50.6 | 22 | 2.5 | | | | | | | | | | | | | | | | | |
| | 31 | 13532 | -154.1 | -154.1 | 24 | 10.6 | 28 | 26591 | -47.9 | -47.9 | 24 | 0.8 | 28 | 26591 | -47.9 | -47.9 | 24 | 0.8 | 31 | 26724 | -45.5 | -50.0 | 14 | 5.7 | 31 | 26671 | -48.1 | -50.1 | 22 | 2.5 | | | | | | | | | | | | | | | | | |
| | 31 | 14032 | -162.9 | -162.9 | 24 | 10.2 | 28 | 28504 | -44.1 | -44.1 | 24 | 0.8 | 28 | 28504 | -44.1 | -44.1 | 24 | 0.8 | 31 | 28658 | -42.9 | -50.0 | 14 | 7.2 | 31 | 28675 | -46.2 | -48.2 | 22 | 2.5 | | | | | | | | | | | | | | | | | |
| | 31 | 14532 | -171.7 | -171.7 | 24 | 9.8 | 28 | 30417 | -41.1 | -41.1 | 24 | 1.4 | 28 | 30417 | -41.1 | -41.1 | 24 | 1.4 | 31 | 30417 | -39.4 | -50.0 | 14 | 9.1 | 31 | 30417 | -41.1 | -43.1 | 22 | 2.5 | | | | | | | | | | | | | | | | | |
| | 31 | 15032 | -180.5 | -180.5 | 24 | 9.4 | 28 | 32330 | -38.1 | -38.1 | 24 | 1.0 | 28 | 32330 | -38.1 | -38.1 | 24 | 1.0 | 31 | 32330 | -36.4 | -50.0 | 14 | 10 | 31 | 32330 | -36.4 | -38.4 | 22 | 2.5 | | | | | | | | | | | | | | | | | |
| | 31 | 15532 | -189.3 | -189.3 | 24 | 9.0 | 28 | 34243 | -35.1 | -35.1 | 24 | 0.8 | 28 | 34243 | -35.1 | -35.1 | 24 | 0.8 | 31 | 34243 | -33.4 | -50.0 | 14 | 11 | 31 | 34243 | -35.1 | -37.1 | 22 | 2.5 | | | | | | | | | | | | | | | | | |
| | 31 | 16032 | -198.1 | -198.1 | 24 | 8.6 | 28 | 36156 | -32.1 | -32.1 | 24 | 0.8 | 28 | 36156 | -32.1 | -32.1 | 24 | 0.8 | 31 | 36156 | -30.4 | -50.0 | 14 | 12 | 31 | 36156 | -32.1 | -34.1 | 22 | 2.5 | | | | | | | | | | | | | | | | | |
| | 31 | 16532 | -206.9 | -206.9 | 24 | 8.2 | 28 | 38069 | -29.1 | -29.1 | 24 | 0.8 | 28 | 38069 | -29.1 | -29.1 | 24 | 0.8 | 31 | 38069 | -27.4 | -50.0 | 14 | 13 | 31 | 38069 | -29.1 | -31.1 | 22 | 2.5 | | | | | | | | | | | | | | | | | |
| | 31 | 17032 | -215.7 | -215.7 | 24 | 7.8 | 28 | 40000 | -26.1 | -26.1 | 24 | 0.8 | 28 | 40000 | -26.1 | -26.1 | 24 | 0.8 | 31 | 40000 | -24.4 | -50.0 | 14 | 14 | 31 | 40000 | -26.1 | -28.1 | 22 | 2.5 | | | | | | | | | | | | | | | | | |
| | 31 | 17532 | -224.5 | -224.5 | 24 | 7.4 | 28 | 41913 | -23.1 | -23.1 | 24 | 0.8 | 28 | 41913 | -23.1 | -23.1 | 24 | 0.8 | 31 | 41913 | -21.4 | -50.0 | 14 | 15 | 31 | 41913 | -23.1 | -25.1 | 22 | 2.5 | | | | | | | | | | | | | | | | | |
| | 31 | 18032 | -233.3 | -233.3 | 24 | 7.0 | 28 | 43826 | -20.1 | -20.1 | 24 | 0.8 | 28 | 43826 | -20.1 | -20.1 | 24 | 0.8 | 31 | 43826 | -19.4 | -50.0 | 14 | 16 | 31 | 43826 | -20.1 | -22.1 | 22 | 2.5 | | | | | | | | | | | | | | | | | |
| | 31 | 18532 | -242.1 | -242.1 | 24 | 6.6 | 28 | 45739 | -17.1 | -17.1 | 24 | 0.8 | 28 | 45739 | -17.1 | -17.1 | 24 | 0.8 | 31 | 45739 | -15.4 | -50.0 | 14 | 17 | 31 | 45739 | -17.1 | -19.1 | 22 | 2.5 | | | | | | | | | | | | | | | | | |
| | 31 | 19032 | -250.9 | -250.9 | 24 | 6.2 | 28 | 47652 | -14.1 | -14.1 | 24 | 0.8 | 28 | 47652 | -14.1 | -14.1 | 24 | 0.8 | 31 | 47652 | -12.7 | -50.0 | 14 | 18 | 31 | 47652 | -14.1 | -16.1 | 22 | 2.5 | | | | | | | | | | | | | | | | | |
| | 31 | 19532 | -259.7 | -259.7 | 24 | 5.8 | 28 | 49565 | -11.1 | -11.1 | 24 | 0.8 | 28 | 49565 | -11.1 | -11.1 | 24 | 0.8 | 31 | 49565 | -9.4 | -50.0 | 14 | 19 | 31 | 49565 | -11.1 | -13.1 | 22 | 2.5 | | | | | | | | | | | | | | | | | |
| | 31 | 20032 | -268.5 | -268.5 | 24 | 5.4 | 28 | 51478 | -8.1 | -8.1 | 24 | 0.8 | 28 | 51478 | -8.1 | -8.1 | 24 | 0.8 | 31 | 51478 | -6.7 | -50.0 | 14 | 20 | 31 | 51478 | -8.1 | -10.1 | 22 | 2.5 | | | | | | | | | | | | | | | | | |
| | 31 | 20532 | -277.3 | -277.3 | 24 | 5.0 | 28 | 53391 | -5.1 | -5.1 | 24 | 0.8 | 28 | 53391 | -5.1 | -5.1 | 24 | 0.8 | 31 | 53391 | -3.4 | -50.0 | 14 | 21 | 31 | 53 | | | | | | | | | | | | | | | | | | | | | |

Average monthly values

MAY 1977

| FAIRBANKS, ALASKA
994 MB | | | | | | | | | | FLINT, MICH.
990 MB | | | | FORT WORTH, TEXAS
995 MB | | | | GLASGOW, MONT.
934 MB | | | | GRAND JUNCTION, COLO.
852 MB | | | | | | | | | | |
|-----------------------------|----|--------|-------|-------|----|-----|------|--------|---------|------------------------|----|------|--------|-----------------------------|--------|-------|-----|--------------------------|--------|--------|--------|---------------------------------|------|--------|-------|--------|--------|--------|-------|------|------|------|
| SURFACE | 31 | 135 | 6.7 | -3.7 | 35 | 2.0 | 31 | 236 | 11.4 | 8.4 | 20 | 1.8 | 31 | 180 | 17.0 | 14.4 | 17 | 1.7 | 31 | 696 | 6.6 | 2.6 | 07 | 2.9 | 31 | 1,472 | 12.6 | -5.1 | 13 | 3.0 | | |
| 1000 | 31 | 87 | | | | | 31 | 148 | | | | | 31 | 139 | | | | | 31 | 129 | | | | | 31 | 112 | | | | | | |
| 950 | 31 | 509 | 6.7 | -3.7 | 05 | 2.0 | 31 | 577 | 12.0 | 5.9 | 24 | 6.0 | 31 | 579 | 17.5 | 11.3 | 19 | 5.5 | 31 | 554 | | | | | 2.2 | 31 | 548 | | | | | |
| 900 | 31 | 950 | 4.0 | -5.0 | 09 | 1.1 | 31 | 1030 | 10.5 | 4.3 | 25 | 8.1 | 31 | 1040 | 15.5 | 7.4 | 19 | 5.8 | 31 | 1002 | 9.0 | | 9.09 | 2.2 | 31 | 1011 | | | | | | |
| 850 | 31 | 1,412 | 7.7 | -6.7 | 19 | 1.4 | 31 | 1,505 | 8.0 | 2.0 | 26 | 9.6 | 31 | 1,524 | 13.8 | 2.6 | 20 | 4.0 | 31 | 1,475 | 7.6 | -1.3 | 02 | 2.1 | 31 | 1,492 | 11.4 | -5.3 | 12 | 3.3 | | |
| 800 | 31 | 1,803 | 8.3 | -8.9 | 24 | 1.5 | 31 | 2,004 | 5.9 | -2.5 | 26 | 10.4 | 31 | 2,051 | 11.1 | -1.6 | 27 | 3.1 | 31 | 1,977 | 4.7 | -3.0 | 02 | 3.0 | 31 | 2,005 | 12.2 | -4.8 | 17 | 2.5 | | |
| 750 | 31 | 2,240 | -7.1 | -12.0 | 25 | 1.6 | 31 | 2,528 | 3.9 | -5.3 | 26 | 11.3 | 31 | 2,568 | 8.1 | -5.8 | 24 | 2.6 | 31 | 2,491 | 1.5 | -6.2 | 29 | 5.5 | 31 | 2,537 | 8.8 | -7.2 | 23 | 4.9 | | |
| 700 | 31 | 2,938 | -11.0 | -15.6 | 26 | 1.7 | 31 | 3,088 | 1.3 | -8.8 | 26 | 12.6 | 31 | 3,136 | 4.9 | -9.9 | 26 | 2.8 | 31 | 3,048 | -2.2 | -9.1 | 30 | 6.9 | 31 | 3,106 | 4.3 | -9.6 | 25 | 4.7 | | |
| 650 | 31 | 3,502 | -15.0 | -20.9 | 26 | 1.4 | 31 | 3,675 | -3.2 | -12.9 | 26 | 13.9 | 31 | 3,734 | 1.2 | -13.4 | 25 | 3.5 | 31 | 3,629 | -6.0 | -13.2 | 29 | 7.5 | 31 | 3,700 | -4.8 | -12.3 | 25 | 6.2 | | |
| 600 | 31 | 4,103 | -19.0 | -25.8 | 22 | 1.7 | 31 | 4,309 | -6.9 | -15.7 | 26 | 14.8 | 31 | 4,370 | -3.1 | -16.9 | 24 | 4.5 | 31 | 4,255 | -9.9 | -18.4 | 29 | 8.9 | 31 | 4,338 | -5.5 | -16.1 | 26 | 5.6 | | |
| 550 | 31 | 4,744 | -23.5 | -30.3 | 21 | 1.2 | 31 | 4,975 | -11.4 | -20.0 | 27 | 16.5 | 31 | 5,032 | -7.7 | -21.4 | 24 | 5.5 | 31 | 4,915 | -14.0 | -23.9 | 29 | 9.6 | 31 | 5,006 | -10.7 | -20.1 | 26 | 9.7 | | |
| 500 | 31 | 5,434 | -28.0 | -36.0 | 19 | 1.2 | 31 | 5,708 | -16.0 | -25.8 | 27 | 16.6 | 31 | 5,794 | -12.8 | -26.7 | 24 | 5.6 | 31 | 5,639 | -19.0 | -28.0 | 29 | 11.1 | 31 | 5,761 | -15.9 | -25.5 | 25 | 11.1 | | |
| 450 | 31 | 6,177 | -34.1 | -39.2 | 18 | 1.3 | 31 | 6,466 | -21.4 | -32.3 | 27 | 17.3 | 31 | 6,582 | -18.4 | -31.6 | 24 | 6.8 | 31 | 6,407 | -24.6 | -34.9 | 29 | 11.6 | 31 | 6,517 | -21.4 | -32.8 | 25 | 12.1 | | |
| 400 | 31 | 6,994 | -40.4 | -43.8 | 13 | 1.4 | 31 | 7,352 | -27.5 | -38.9 | 27 | 17.7 | 31 | 7,458 | -24.7 | -37.4 | 25 | 7.6 | 31 | 7,260 | -31.0 | -40.2 | 28 | 13.4 | 31 | 7,385 | -28.0 | -38.9 | 26 | 14.0 | | |
| 350 | 31 | 7,891 | -47.2 | | | 1.3 | 21.9 | 8,309 | -34.4 | -44.2 | 27 | 18.6 | 31 | 8,417 | -31.7 | -44.1 | 26 | 8.9 | 31 | 8,193 | -38.4 | -45.1 | 28 | 14.9 | 31 | 8,329 | -35.4 | -44.8 | 26 | 14.4 | | |
| 300 | 31 | 8,896 | -53.2 | | | 1.3 | 29.9 | 9,370 | -42.3 | -50.2 | 28 | 19.6 | 31 | 9,490 | -39.7 | -49.5 | 27 | 12.3 | 31 | 9,234 | -46.7 | | | 27 | 15.8 | 31 | 9,383 | -43.7 | | 26 | 14.7 | |
| 250 | 31 | 10,069 | -52.4 | | | 1.0 | 28.9 | 10,579 | -51.3 | | | 28 | 22.2 | 30 | 10,713 | -49.4 | | 27 | 14.8 | 31 | 10,423 | -53.2 | | | 27 | 16.7 | 31 | 10,585 | -52.3 | | 26 | 17.5 |
| 200 | 31 | 11,524 | -49.0 | | | 1.7 | 22.9 | 12,001 | -59.4 | | | 28 | 21.9 | 30 | 12,144 | -59.0 | | 26 | 17.4 | 31 | 11,842 | -57.0 | | | 27 | 17.2 | 31 | 12,003 | -59.1 | | 26 | 16.7 |
| 175 | 30 | 12,399 | -48.0 | | | 23 | 22.9 | 12,892 | -61.3 | | | 28 | 20.3 | 30 | 12,975 | -61.4 | | 26 | 18.1 | 31 | 12,690 | -55.6 | | | 27 | 16.2 | 31 | 12,839 | -56.6 | | 26 | 13.5 |
| 150 | 30 | 13,415 | -48.2 | | | 27 | 29.9 | 13,992 | -59.3 | | | 28 | 17.1 | 30 | 13,931 | -61.7 | | 27 | 16.5 | 31 | 13,675 | -54.5 | | | 27 | 14.9 | 31 | 13,804 | -59.4 | | 26 | 11.5 |
| 125 | 30 | 14,616 | -46.8 | | | 22 | 1.3 | 29.4 | -49.6 | -58.7 | | 27 | 13.7 | 30 | 15,059 | -62.1 | | 26 | 14.4 | 31 | 14,843 | -54.6 | | | 27 | 11.9 | 31 | 14,944 | -59.8 | | 26 | 11.3 |
| 100 | 29 | 16,084 | -46.3 | | | 21 | 1.5 | 29.9 | 16,336 | -59.1 | | 28 | 11.4 | 30 | 16,435 | -63.5 | | 26 | 11.1 | 31 | 16,269 | -55.4 | | | 27 | 9.0 | 31 | 16,339 | -59.8 | | 26 | 7.5 |
| 80 | 29 | 17,555 | -48.7 | | | 19 | 1.3 | 29.9 | 17,736 | -58.5 | | 28 | 7.9 | 30 | 17,801 | -64.1 | | 25 | 5.8 | 31 | 17,691 | -55.3 | | | 27 | 6.2 | 31 | 17,733 | -59.1 | | 25 | 4.5 |
| 60 | 29 | 18,937 | -47.5 | | | 17 | 1.1 | 29.9 | 18,977 | -57.8 | | 29 | 5.0 | 30 | 19,620 | -62.9 | | 25 | 2.6 | 31 | 19,567 | -56.7 | | | 27 | 3.4 | 31 | 19,578 | -58.7 | | 24 | 1.7 |
| 40 | 29 | 19,456 | -47.3 | | | 16 | 1.4 | 29.9 | 19,581 | -57.0 | | 30 | 1.9 | 30 | 19,681 | -61.1 | | 25 | 1.4 | 31 | 19,531 | -54.2 | | | 27 | 2.9 | 30 | 19,539 | -57.9 | | 24 | 1.1 |
| 20 | 29 | 20,660 | -47.1 | | | 13 | 1.5 | 28.0 | -20.708 | -55.7 | | 32 | 1.4 | 30 | 20,712 | -68.6 | | 09 | 3.3 | 31 | 20,701 | -53.9 | | | 30 | 1.5 | 30 | 20,691 | -56.7 | | 23 | 1.0 |
| 0 | 26 | 22,149 | -46.8 | | | 11 | 2.3 | 28.0 | 22,136 | -53.6 | | 09 | 6.30 | 22,127 | -54.7 | | 09 | 5.0 | 31 | 22,213 | -53.0 | | | 30 | 1.6 | 30 | 22,113 | -54.4 | | 28 | 2.0 | |
| 30 | 25 | 24,053 | -46.8 | | | 09 | 3.7 | 26.0 | 23,991 | -51.7 | | 07 | 9.39 | 23,982 | -51.1 | | 09 | 5.7 | 30 | 23,996 | -51.9 | | | 06 | 2.7 | 30 | 23,965 | -52.2 | | 08 | 2.6 | |
| 25 | 24 | 25,264 | -45.6 | | | 08 | 5.6 | 26.0 | 25,177 | -50.5 | | 10 | 6.28 | 25,176 | -49.3 | | 09 | 6.2 | 30 | 25,180 | -51.0 | | | 06 | 2.3 | 31 | 25,150 | -50.2 | | 06 | 1.9 | |
| 20 | 21 | 26,787 | -43.3 | | | 6.5 | 2.4 | 26,683 | -48.7 | | 06 | 5.25 | 26,646 | -46.5 | | 09 | 5.6 | 31 | 26,647 | -49.3 | | | 07 | 2.4 | 30 | 26,600 | -47.7 | | 04 | 1.9 | | |
| 15 | 21 | 28,704 | -42.1 | | | 8.7 | 2.8 | 28,642 | -45.6 | | 05 | 11.9 | 28,564 | -43.1 | | 08 | 6.4 | 30 | 28,565 | -46.4 | | | 06 | 2.5 | 27 | 28,523 | -44.4 | | 29 | 2.8 | | |
| 10 | 18 | 31,359 | -37.9 | | | 09 | 9.8 | 31,288 | -40.9 | | 24 | 11.7 | 31,343 | -38.9 | | 10 | 8.1 | 31 | 31,242 | -42.5 | | | 15 | 31,297 | -39.5 | | | | | | | |
| 7 | 6 | 33,911 | -33.0 | | | | 6 | 33,947 | -38.0 | | | | | | | | | | | 5 | 33,543 | -36.4 | | | | | | | | | | |

Average monthly values

MAY 1970

[illegible]

| * INTERNATIONAL FALLS, MINN. | | | | | | | | | | JACKSON, MISS. | | | | | | | | | | KEY WEST, FLA. | | | | | | | | | | KING SALMON, ALASKA | | | | | | | | | | KORDA, CAROLINE IS. | | | | | | | | | |
|------------------------------|---|-----|------|-------|------|-----|-----|-------|------|----------------|-------|----|----|------|------|-------|-------|-----|-----|----------------|-------|-------|-------|-----|-----|------|------|-------|-------|---------------------|-----|--|--|--|--|--|--|--|--|---------------------|--|--|--|--|--|--|--|--|--|
| 9-12 MB | | | | | | | | | | 10-17 MB | | | | | | | | | | 10-16 MB | | | | | | | | | | 10-78 MB | | | | | | | | | | 10-7 MB | | | | | | | | | |
| SURFACE | 3 | 159 | -4.2 | -0.7 | 1.0 | 3 | 100 | 16.7 | 19.1 | 12 | 1 | 0 | 31 | 3 | 24.4 | 20.1 | 10 | 3.7 | 3. | 15 | 3.2 | -9.12 | 1.0 | 31 | 30 | 28.4 | 24.9 | 09 | 3.7 | | | | | | | | | | | | | | | | | | | | |
| | 3 | 124 | | | | 3 | 159 | 18.1 | 15.1 | 13 | 1 | 0 | 31 | 142 | 23.6 | 19.4 | 09 | 5.1 | 3. | 81 | 4.2 | -6.15 | 1.1 | 31 | 34 | 27.5 | 23.6 | 09 | 4.5 | | | | | | | | | | | | | | | | | | | | |
| 950 | 3 | 154 | 3.9 | -1.1 | 1.6 | 3 | 101 | 18.3 | 11.1 | 15 | 1 | 2 | 31 | 583 | 20.2 | 16.7 | 10 | 5.7 | 3. | 498 | 3.4 | -1.9 | 1.0 | 29 | 343 | 23.7 | 19.9 | 09 | 7.5 | | | | | | | | | | | | | | | | | | | | |
| 900 | 3 | 154 | 3.9 | -0.9 | 1.6 | 3 | 101 | 18.3 | 6.9 | 15 | 1 | 2 | 31 | 583 | 20.2 | 12.8 | 11 | 5.7 | 3. | 498 | 3.4 | -3.1 | 1.0 | 29 | 343 | 23.7 | 16.0 | 09 | 4.5 | | | | | | | | | | | | | | | | | | | | |
| 850 | 3 | 159 | 3.0 | -0.5 | 1.4 | 3 | 157 | 15.6 | 1.3 | 14 | 1 | 0 | 31 | 750 | 14.4 | 5.4 | 11 | 4.5 | 3. | 1393 | -1.7 | -5.8 | 0.7 | 4 | 31 | 1512 | 18.4 | 12.2 | 09 | 7.0 | | | | | | | | | | | | | | | | | | | |
| 800 | 3 | 154 | 1.1 | -0.5 | 3.0 | 3 | 157 | 20.5 | 10.6 | -2.0 | 1.7 | 2 | 31 | 2051 | 12.3 | -2.5 | 11 | 3.6 | 3. | 1873 | -4.6 | -9.5 | 0.8 | 5 | 6 | 2030 | 15.8 | 8.6 | 09 | 8.6 | | | | | | | | | | | | | | | | | | | |
| 750 | 3 | 155 | -1.0 | -9.2 | 3.0 | 3 | 158 | 20.6 | -0.8 | -2.9 | 31 | 2 | 31 | 2585 | 10.3 | -7.3 | 11 | 2.4 | 3. | 2379 | -7.5 | -14.9 | 0.8 | 5 | 6 | 2572 | 13.1 | 4.7 | 09 | 7.1 | | | | | | | | | | | | | | | | | | | |
| 700 | 3 | 160 | 3.8 | -12.1 | 2.9 | 3 | 155 | 31.55 | -4.6 | -10.6 | 1 | 2 | 31 | 3162 | 7.4 | -10.7 | 10 | 1.5 | 5. | 2413 | -10.7 | -19.1 | 0.8 | 5 | 6 | 3155 | 10.2 | -7 | 09 | 6.5 | | | | | | | | | | | | | | | | | | | |
| 650 | 3 | 156 | 3.4 | -16.7 | 2.9 | 3 | 156 | 31.55 | -4.6 | -10.6 | 1 | 2 | 31 | 3162 | 7.4 | -10.7 | 10 | 1.5 | 5. | 2413 | -10.7 | -19.1 | 0.8 | 5 | 6 | 3155 | 10.2 | -7 | 09 | 6.5 | | | | | | | | | | | | | | | | | | | |
| 600 | 3 | 157 | 4.2 | -1.5 | 2.5 | 3 | 158 | 11.0 | 4.3 | -1.0 | 17.2 | 23 | 31 | 4415 | 2 | -16.0 | 26 | 1.3 | 1. | 34 | -26.4 | 0.7 | 5 | 0 | 31 | 3764 | 6.8 | -3 | 09 | 6.0 | | | | | | | | | | | | | | | | | | | |
| 550 | 3 | 158 | 4.8 | -1.7 | 2.5 | 3 | 158 | 11.0 | 4.3 | -1.0 | 17.2 | 23 | 31 | 4415 | 2 | -16.0 | 26 | 1.3 | 1. | 34 | -26.4 | 0.7 | 5 | 0 | 31 | 3764 | 6.8 | -3 | 09 | 6.0 | | | | | | | | | | | | | | | | | | | |
| 500 | 3 | 159 | 4.8 | -13.7 | -0.4 | 2.8 | 158 | 3.0 | 5.0 | -8.5 | -20.4 | 23 | 31 | 5192 | -4.2 | -20.6 | 27 | 3.3 | 3. | 4726 | -22.4 | -31.1 | 0.7 | 5 | 2 | 5115 | -8.8 | -11.8 | 09 | 5.3 | | | | | | | | | | | | | | | | | | | |
| 450 | 3 | 159 | 5.5 | -18.5 | -0.5 | 2.8 | 158 | 3.0 | 5.0 | -8.5 | -20.4 | 23 | 31 | 5192 | -4.2 | -20.6 | 27 | 3.3 | 3. | 4726 | -22.4 | -31.1 | 0.7 | 5 | 2 | 5115 | -8.8 | -11.8 | 09 | 5.3 | | | | | | | | | | | | | | | | | | | |
| 400 | 3 | 160 | 6.8 | -23.8 | -0.2 | 2.8 | 158 | 3.0 | 5.0 | -8.5 | -20.4 | 23 | 31 | 5192 | -4.2 | -20.6 | 27 | 3.3 | 3. | 4726 | -22.4 | -31.1 | 0.7 | 5 | 2 | 5115 | -8.8 | -11.8 | 09 | 5.3 | | | | | | | | | | | | | | | | | | | |
| 350 | 3 | 160 | 7.2 | -30.2 | -0.2 | 1.8 | 158 | 3.0 | 5.0 | - | - | - | - | 31 | 7546 | -20.7 | -36.1 | 27 | 5.1 | 3. | 6591 | -38.8 | -46.6 | 0.5 | 4 | 31 | 7602 | -14.9 | -28.6 | 0.8 | 3.3 | | | | | | | | | | | | | | | | | | |
| 300 | 3 | 161 | 8.1 | -37.4 | -0.2 | 1.8 | 158 | 3.0 | 5.0 | - | - | - | - | 31 | 8520 | -27.7 | -45.6 | 27 | 11 | 7. | 1056 | -45.6 | -62.7 | 0.3 | 3 | 31 | 8599 | -2.7 | -36.4 | 0.2 | 2.4 | | | | | | | | | | | | | | | | | | |
| 250 | 3 | 161 | 8.1 | -44.8 | -0.2 | 1.8 | 158 | 3.0 | 5.0 | - | - | - | - | 31 | 9611 | -35.6 | -51.0 | 27 | 14 | 31 | 8911 | -51.2 | -60.2 | 0.2 | 4 | 31 | 9716 | -29.9 | -44.2 | 0.2 | 1.8 | | | | | | | | | | | | | | | | | | |
| 200 | 3 | 161 | 8.1 | -44.8 | -0.2 | 1.8 | 158 | 3.0 | 5.0 | - | - | - | - | 31 | 9611 | -35.6 | -51.0 | 27 | 14 | 31 | 8911 | -51.2 | -60.2 | 0.2 | 4 | 31 | 9716 | -29.9 | -44.2 | 0.2 | 1.8 | | | | | | | | | | | | | | | | | | |
| 150 | 3 | 161 | 8.1 | -44.8 | -0.2 | 1.8 | 158 | 3.0 | 5.0 | - | - | - | - | 31 | 9611 | -35.6 | -51.0 | 27 | 14 | 31 | 8911 | -51.2 | -60.2 | 0.2 | 4 | 31 | 9716 | -29.9 | -44.2 | 0.2 | 1.8 | | | | | | | | | | | | | | | | | | |
| 100 | 3 | 161 | 8.1 | -44.8 | -0.2 | 1.8 | 158 | 3.0 | 5.0 | - | - | - | - | 31 | 9611 | -35.6 | -51.0 | 27 | 14 | 31 | 8911 | -51.2 | -60.2 | 0.2 | 4 | 31 | 9716 | -29.9 | -44.2 | 0.2 | 1.8 | | | | | | | | | | | | | | | | | | |
| 50 | 3 | 161 | 8.1 | -44.8 | -0.2 | 1.8 | 158 | 3.0 | 5.0 | - | - | - | - | 31 | 9611 | -35.6 | -51.0 | 27 | 14 | 31 | 8911 | -51.2 | -60.2 | 0.2 | 4 | 31 | 9716 | -29.9 | -44.2 | 0.2 | 1.8 | | | | | | | | | | | | | | | | | | |
| 0 | 3 | 161 | 8.1 | -44.8 | -0.2 | 1.8 | 158 | 3.0 | 5.0 | - | - | - | - | 31 | 9611 | -35.6 | -51.0 | 27 | 14 | 31 | 8911 | -51.2 | -60.2 | 0.2 | 4 | 31 | 9716 | -29.9 | -44.2 | 0.2 | 1.8 | | | | | | | | | | | | | | | | | | |
| | 3 | 161 | 8.1 | -44.8 | -0.2 | 1.8 | 158 | 3.0 | 5.0 | - | - | - | - | 31 | 9611 | -35.6 | -51.0 | 27 | 14 | 31 | 8911 | -51.2 | -60.2 | 0.2 | 4 | 31 | 9716 | -29.9 | -44.2 | 0.2 | 1.8 | | | | | | | | | | | | | | | | | | |
| | 3 | 161 | 8.1 | -44.8 | -0.2 | 1.8 | 158 | 3.0 | 5.0 | - | - | - | - | 31 | 9611 | -35.6 | -51.0 | 27 | 14 | 31 | 8911 | -51.2 | -60.2 | 0.2 | 4 | 31 | 9716 | -29.9 | -44.2 | 0.2 | 1.8 | | | | | | | | | | | | | | | | | | |
| | 3 | 161 | 8.1 | -44.8 | -0.2 | 1.8 | 158 | 3.0 | 5.0 | - | - | - | - | 31 | 9611 | -35.6 | -51.0 | 27 | 14 | 31 | 8911 | -51.2 | -60.2 | 0.2 | 4 | 31 | 9716 | -29.9 | -44.2 | 0.2 | 1.8 | | | | | | | | | | | | | | | | | | |
| | 3 | 161 | 8.1 | -44.8 | -0.2 | 1.8 | 158 | 3.0 | 5.0 | - | - | - | - | 31 | 9611 | -35.6 | -51.0 | 27 | 14 | 31 | 8911 | -51.2 | -60.2 | 0.2 | 4 | 31 | 9716 | -29.9 | -44.2 | 0.2 | 1.8 | | | | | | | | | | | | | | | | | | |
| | 3 | 161 | 8.1 | -44.8 | -0.2 | 1.8 | 158 | 3.0 | 5.0 | - | - | - | - | 31 | 9611 | -35.6 | -51.0 | 27 | 14 | 31 | 8911 | -51.2 | -60.2 | 0.2 | 4 | 31 | 9716 | -29.9 | -44.2 | 0.2 | 1.8 | | | | | | | | | | | | | | | | | | |
| | 3 | 161 | 8.1 | -44.8 | -0.2 | 1.8 | 158 | 3.0 | 5.0 | - | - | - | - | 31 | 9611 | -35.6 | -51.0 | 27 | 14 | 31 | 8911 | -51.2 | -60.2 | 0.2 | 4 | 31 | 9716 | -29.9 | -44.2 | 0.2 | 1.8 | | | | | | | | | | | | | | | | | | |
| | 3 | 161 | 8.1 | -44.8 | -0.2 | 1.8 | 158 | 3.0 | 5.0 | - | - | - | - | 31 | 9611 | -35.6 | -51.0 | 27 | 14 | 31 | 8911 | -51.2 | -60.2 | 0.2 | 4 | 31 | 9716 | -29.9 | -44.2 | 0.2 | 1.8 | | | | | | | | | | | | | | | | | | |
| | 3 | 161 | 8.1 | -44.8 | -0.2 | 1.8 | 158 | 3.0 | 5.0 | - | - | - | - | 31 | 9611 | -35.6 | -51.0 | 27 | 14 | 31 | 8911 | -51.2 | -60.2 | 0.2 | 4 | 31 | 9716 | -29.9 | -44.2 | 0.2 | 1.8 | | | | | | | | | | | | | | | | | | |
| | 3 | 161 | 8.1 | -44.8 | -0.2 | 1.8 | 158 | 3.0 | 5.0 | - | - | - | - | 31 | 9611 | -35.6 | -51.0 | 27 | 14 | 31 | 8911 | -51.2 | -60.2 | 0.2 | 4 | 31 | 9716 | -29.9 | -44.2 | 0.2 | 1.8 | | | | | | | | | | | | | | | | | | |
| | 3 | 161 | 8.1 | -44.8 | -0.2 | 1.8 | 158 | 3.0 | 5.0 | - | - | - | - | 31 | 9611 | -35.6 | -51.0 | 27 | 14 | 31 | 8911 | -51.2 | -60.2 | 0.2 | 4 | 31 | 9716 | -29.9 | -44.2 | 0.2 | 1.8 | | | | | | | | | | | | | | | | | | |
| | 3 | 161 | 8.1 | -44.8 | -0.2 | 1.8 | 158 | 3.0 | 5.0 | - | - | - | - | 31 | 9611 | -35.6 | -51.0 | 27 | 14 | 31 | 8911 | -51.2 | -60.2 | 0.2 | 4 | 31 | 9716 | -29.9 | -44.2 | 0.2 | 1.8 | | | | | | | | | | | | | | | | | | |
| | 3 | 161 | 8.1 | -44.8 | -0.2 | 1.8 | 158 | 3.0 | 5.0 | - | - | - | - | 31 | 9611 | -35.6 | -51.0 | 27 | 14 | 31 | 8911 | -51.2 | -60.2 | 0.2 | 4 | 31 | 9716 | -29.9 | -44.2 | 0.2 | 1.8 | | | | | | | | | | | | | | | | | | |
| | 3 | 161 | 8.1 | -44.8 | -0.2 | 1.8 | 158 | 3.0 | 5.0 | - | - | - | - | 31 | 9611 | -35.6 | -51.0 | 27 | 14 | 31 | 8911 | -51.2 | -60.2 | 0.2 | 4 | 31 | 9716 | -29.9 | -44.2 | 0.2 | 1.8 | | | | | | | | | | | | | | | | | | |
| | 3 | 161 | 8.1 | -44.8 | -0.2 | 1.8 | 158 | 3.0 | 5.0 | - | - | - | - | 31 | 9611 | -35.6 | -51.0 | 27 | 14 | 31 | 8911 | -51.2 | -60.2 | 0.2 | 4 | 31 | 9716 | -29.9 | -44.2 | 0.2 | 1.8 | | | | | | | | | | | | | | | | | | |
| | 3 | 161 | 8.1 | -44.8 | -0.2 | 1.8 | 158 | 3.0 | 5.0 | - | - | - | - | 31 | 9611 | -35.6 | -51.0 | 27 | 14 | 31 | 8911 | -51.2 | -60.2 | 0.2 | 4 | 31 | 9716 | -29.9 | -44.2 | 0.2 | 1.8 | | | | | | | | | | | | | | | | | | |
| | 3 | 161 | 8.1 | -44.8 | -0.2 | 1.8 | 158 | 3.0 | 5.0 | - | - | - | - | 31 | 9611 | -35.6 | -51.0 | 27 | 14 | 31 | 8911 | -51.2 | -60.2 | 0.2 | 4 | 31 | 9716 | -29.9 | -44.2 | 0.2 | 1.8 | | | | | | | | | | | | | | | | | | |
| | 3 | 161 | 8.1 | -44.8 | -0.2 | 1.8 | 158 | 3.0 | 5.0 | - | - | - | - | 31 | 9611 | -35.6 | -51.0 | 27 | 14 | 31 | 8911 | -51.2 | -60.2 | 0.2 | 4 | 31 | 9716 | -29.9 | -44.2 | 0.2 | 1.8 | | | | | | | | | | | | | | | | | | |
| | 3 | 161 | 8.1 | -44.8 | -0.2 | 1.8 | 158 | 3.0 | 5.0 | - | - | - | - | 31 | 9611 | -35.6 | -51.0 | 27 | 14 | 31 | 8911 | -51.2 | -60.2 | 0.2 | 4 | 31 | 9716 | -29.9 | -44.2 | 0.2 | 1.8 | | | | | | | | | | | | | | | | | | |
| | 3 | 161 | 8.1 | -44.8 | -0.2 | 1.8 | 158 | 3.0 | 5.0 | - | - | - | - | 31 | 9611 | -35.6 | -51.0 | 27 | 14 | 31 | 8911 | -51.2 | -60.2 | 0.2 | 4 | 31 | 9716 | -29.9 | -44.2 | 0.2 | 1.8 | | | | | | | | | | | | | | | | | | |
| | 3 | 161 | 8.1 | -44.8 | -0.2 | 1.8 | 158 | 3.0 | 5.0 | - | - | - | - | 31 | 9611 | -35.6 | -51.0 | 27 | 14 | 31 | 8911 | -51.2 | -60.2 | 0.2 | 4 | 31 | 9716 | -29.9 | -44.2 | 0.2 | 1.8 | | | | | | | | | | | | | | | | | | |
| | 3 | 161 | 8.1 | -44.8 | -0.2 | 1.8 | 158 | 3.0 | 5.0 | - | - | - | - | 31 | 9611 | -35.6 | -51.0 | 27 | 14 | 31 | 8911 | -51.2 | -60.2 | 0.2 | 4 | 31 | 9716 | -29.9 | -44.2 | 0.2 | 1.8 | | | | | | | | | | | | | | | | | | |
| | 3 | 161 | 8.1 | -44.8 | -0.2 | 1.8 | 158 | 3.0 | 5.0 | - | - | - | - | 31 | 9611 | -35.6 | -51.0 | 27 | 14 | 31 | 8911 | -51.2 | -60.2 | 0.2 | 4 | 31 | 9716 | -29.9 | -44.2 | 0.2 | 1.8 | | | | | | | | | | | | | | | | | | |
| | 3 | 161 | 8.1 | -44.8 | -0.2 | 1.8 | 158 | 3.0 | 5.0 | - | - | - | - | 31 | 9611 | -35.6 | -51.0 | 27 | 14 | 31 | 8911 | -51.2 | -60.2 | 0.2 | 4 | 31 | 9716 | -29.9 | -44.2 | 0.2 | 1.8 | | | | | | | | | | | | | | | | | | |
| | 3 | 161 | 8.1 | -44.8 | -0.2 | 1.8 | 158 | 3.0 | 5.0 | - | - | - | - | 31 | 9611 | -35.6 | -51.0 | 27 | 14 | 31 | 8911 | -51.2 | -60.2 | 0.2 | 4 | 31 | 9716 | -29.9 | -44.2 | 0.2 | 1.8 | | | | | | | | | | | | | | | | | | |
| | 3 | 161 | 8.1 | -44.8 | -0.2 | 1.8 | 158 | 3.0 | 5.0 | - | - | - | - | 31 | 9611 | -35.6 | -51.0 | 27 | 14 | 31 | 8911 | -51.2 | -60.2 | 0.2 | 4 | 31 | 9716 | -29.9 | -44.2 | 0.2 | 1.8 | | | | | | | | | | | | | | | | | | |
| | 3 | 161 | 8.1 | -44.8 | -0.2 | 1.8 | 158 | 3.0 | 5.0 | - | - | - | - | 31 | 9611 | -35.6 | -51.0 | 27 | 14 | 31 | 8911 | -51.2 | -60.2 | 0.2 | 4 | 31 | 9716 | -29.9 | -44.2 | 0.2 | 1.8 | | | | | | | | | | | | | | | | | | |
| | 3 | 161 | 8.1 | -44.8 | -0.2 | 1.8 | 158 | 3.0 | 5.0 | - | - | - | - | 31 | 9611 | -35.6 | -51.0 | 27 | 14 | 31 | 8911 | -51.2 | -60.2 | 0.2 | 4 | 31 | 9716 | -29.9 | -44.2 | 0.2 | 1.8 | | | | | | | | | | | | | | | | | | |
| | 3 | 161 | 8.1 | -44.8 | -0.2 | 1.8 | 158 | 3.0 | 5.0 | - | - | - | - | 31 | 9611 | -35.6 | -51.0 | 27 | 14 | 31 | 8911 | -51.2 | -60.2 | 0.2 | 4 | 31 | 9716 | -29.9 | -44.2 | 0.2 | 1.8 | | | | | | | | | | | | | | | | | | |
| | 3 | 161 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

RAWINSONDE DATA

Average monthly values

| LITTLE ROCK, ARK.
1009 MB | | | | | | | | | | M. GRAPH, ALASKA
1000 MB | | | | | | | | | | MAJURO, MARSHALL IS.
1011 MB | | | | | | | | | | ME. FANCY, HAWAII
1013 MB | | | | | | | | | | PENAMA, PANAMA
1012 MB | | | | | | | | | |
|----------------------------------|--------------------|----------------|-------------|-----------|-----------|-------|--------------------|----------------|-------------|-----------------------------|-----------|-------|--------------------|----------------|-------------|-----------|-----------|-------|--------------------|---------------------------------|-------------|-----------|-----------|-------|--------------------|----------------|-------------|-----------|-----------|------------------------------|--------------------|----------------|-------------|-----------|-----------|-------|--------------------|----------------|-------------|---------------------------|-----------|-------|--|--|--|--|--|--|--|
| Standard pressure
surface mb) | No of observations | Dynamic height | Temperature | Dew Point | Direction | Speed | No of observations | Dynamic height | Temperature | Dew Point | Direction | Speed | No of observations | Dynamic height | Temperature | Dew Point | Direction | Speed | No of observations | Dynamic height | Temperature | Dew Point | Direction | Speed | No of observations | Dynamic height | Temperature | Dew Point | Direction | Speed | No of observations | Dynamic height | Temperature | Dew Point | Direction | Speed | No of observations | Dynamic height | Temperature | Dew Point | Direction | Speed | | | | | | | |
| SURFACE | 31 | 79 | 15.9 | 14.0 | 22 | 1.0 | 18 | 103 | 5.0 | 34 | 1.0 | 31 | 3 | 28.9 | 25.0 | 08 | 5.7 | 31 | 118 | 22.0 | 20.5 | 08 | 1.2 | 31 | 118 | 22.0 | 20.5 | 08 | 1.2 | 31 | 118 | 22.0 | 20.5 | 08 | 1.2 | 31 | 118 | 22.0 | 20.5 | 08 | 1.2 | | | | | | | | |
| 1000 | 31 | 153 | 17.5 | 13.6 | 22 | 1.8 | 18 | 101 | 7.1 | 34 | 1.9 | 31 | 96 | 23.5 | 22.5 | 08 | 6.7 | 31 | 170 | 9.8 | 4.5 | 30 | 1.2 | 31 | 170 | 9.8 | 4.5 | 30 | 1.2 | 31 | 170 | 9.8 | 4.5 | 30 | 1.2 | 31 | 170 | 9.8 | 4.5 | 30 | 1.2 | | | | | | | | |
| 950 | 31 | 591 | 18.4 | 10.0 | 23 | 4.6 | 18 | 519 | 4.5 | 32 | 4.3 | 31 | 548 | 23.5 | 19.0 | 08 | 9.5 | 31 | 601 | 9.8 | 4.5 | 30 | 1.2 | 31 | 601 | 9.8 | 4.5 | 30 | 1.2 | 31 | 601 | 9.8 | 4.5 | 30 | 1.2 | 31 | 601 | 9.8 | 4.5 | 30 | 1.2 | | | | | | | | |
| 900 | 31 | 1536 | 15.7 | 6.7 | 22 | 5.1 | 18 | 655 | 4.1 | 17 | 3.5 | 31 | 1020 | 20.9 | 15.1 | 09 | 9.9 | 31 | 1044 | 8.6 | 1.9 | 31 | 1.2 | 31 | 1044 | 8.6 | 1.9 | 31 | 1.2 | 31 | 1044 | 8.6 | 1.9 | 31 | 1.2 | 31 | 1044 | 8.6 | 1.9 | 31 | 1.2 | | | | | | | | |
| 850 | 31 | 1539 | 12.6 | 3.6 | 22 | 4.8 | 18 | 1428 | 1.0 | 11 | 6.3 | 31 | 1514 | 18.6 | 11.3 | 09 | 9.5 | 31 | 1516 | 6.8 | -1.1 | 32 | 1.6 | 31 | 1516 | 6.8 | -1.1 | 32 | 1.6 | 31 | 1516 | 6.8 | -1.1 | 32 | 1.6 | 31 | 1516 | 6.8 | -1.1 | 32 | 1.6 | | | | | | | | |
| 800 | 31 | 2006 | 9.9 | -1.5 | 22 | 4.8 | 18 | 1913 | -2.8 | -8.2 | 29 | 5.1 | 31 | 2033 | 16.4 | 7.9 | 09 | 9.5 | 31 | 2033 | 5.2 | -7.2 | 27 | 1.0 | 31 | 2033 | 5.2 | -7.2 | 27 | 1.0 | 31 | 2033 | 5.2 | -7.2 | 27 | 1.0 | 31 | 2033 | 5.2 | -7.2 | 27 | 1.0 | | | | | | | |
| 750 | 31 | 2575 | 7.5 | -8.0 | 23 | 4.8 | 18 | 2417 | -6.0 | -10.9 | 11 | 6.3 | 31 | 2577 | 13.9 | 3.8 | 09 | 9.3 | 31 | 2537 | 2.6 | -11.1 | 29 | 2.7 | 31 | 2537 | 2.6 | -11.1 | 29 | 2.7 | 31 | 2537 | 2.6 | -11.1 | 29 | 2.7 | 31 | 2537 | 2.6 | -11.1 | 29 | 2.7 | | | | | | | |
| 700 | 31 | 3146 | 4.2 | -11.1 | 23 | 4.9 | 18 | 2957 | -10.3 | -16.8 | 11 | 6.3 | 31 | 3160 | 10.8 | -3.9 | 09 | 8.0 | 31 | 3092 | -1.4 | -14.6 | 28 | 4.7 | 31 | 3092 | -1.4 | -14.6 | 28 | 4.7 | 31 | 3092 | -1.4 | -14.6 | 28 | 4.7 | 31 | 3092 | -1.4 | -14.6 | 28 | 4.7 | | | | | | | |
| 650 | 31 | 3737 | 3.3 | -13.9 | 24 | 5.3 | 18 | 3756 | -14.0 | -20.6 | 14 | 6.3 | 31 | 3771 | 7.4 | -4.5 | 09 | 7.8 | 31 | 3675 | -3.9 | -18.3 | 28 | 5.7 | 31 | 3675 | -3.9 | -18.3 | 28 | 5.7 | 31 | 3675 | -3.9 | -18.3 | 28 | 5.7 | 31 | 3675 | -3.9 | -18.3 | 28 | 5.7 | | | | | | | |
| 600 | 31 | 4382 | -3.9 | -18.9 | 24 | 6.2 | 18 | 4127 | -18.0 | -25.2 | 15 | 6.3 | 31 | 4430 | 3.6 | -7.7 | 09 | 5.7 | 31 | 4308 | -8.4 | -21.5 | 28 | 6.9 | 31 | 4308 | -8.4 | -21.5 | 28 | 6.9 | 31 | 4308 | -8.4 | -21.5 | 28 | 6.9 | 31 | 4308 | -8.4 | -21.5 | 28 | 6.9 | | | | | | | |
| 550 | 31 | 5055 | -8.4 | -21.9 | 24 | 6.6 | 18 | 4766 | -22.4 | -31.4 | 25 | 5.3 | 31 | 5119 | -11.3 | 10.0 | 09 | 9.5 | 31 | 5077 | -12.3 | -25.5 | 28 | 9.1 | 31 | 5077 | -12.3 | -25.5 | 28 | 9.1 | 31 | 5077 | -12.3 | -25.5 | 28 | 9.1 | 31 | 5077 | -12.3 | -25.5 | 28 | 9.1 | | | | | | | |
| 500 | 31 | 5797 | -13.4 | -26.3 | 24 | 7.4 | 18 | 5466 | -27.3 | -35.1 | 30 | 1.2 | 31 | 5888 | -7.7 | -16.9 | 12 | 2.4 | 31 | 5700 | -17.1 | -34.3 | 28 | 11.1 | 31 | 5700 | -17.1 | -34.3 | 28 | 11.1 | 31 | 5700 | -17.1 | -34.3 | 28 | 11.1 | 31 | 5700 | -17.1 | -34.3 | 28 | 11.1 | | | | | | | |
| 450 | 31 | 6584 | -18.8 | -32.3 | 24 | 7.9 | 18 | 6209 | -32.6 | -40.4 | 33 | 2.2 | 31 | 6703 | -9.2 | -23.8 | 18 | 5.1 | 31 | 6476 | -22.6 | -34.0 | 28 | 12.7 | 31 | 6476 | -22.6 | -34.0 | 28 | 12.7 | 31 | 6476 | -22.6 | -34.0 | 28 | 12.7 | 31 | 6476 | -22.6 | -34.0 | 28 | 12.7 | | | | | | | |
| 400 | 31 | 7460 | -25.0 | -38.3 | 24 | 8.9 | 18 | 7038 | -38.5 | -45.0 | 33 | 2.8 | 31 | 7514 | -15.4 | -30.0 | 18 | 2.3 | 31 | 7336 | -28.9 | -38.8 | 28 | 14.0 | 31 | 7336 | -28.9 | -38.8 | 28 | 14.0 | 31 | 7336 | -28.9 | -38.8 | 28 | 14.0 | 31 | 7336 | -28.9 | -38.8 | 28 | 14.0 | | | | | | | |
| 350 | 31 | 8417 | -32.0 | -44.2 | 25 | 8.5 | 15 | 7943 | -44.7 | -50.3 | 32 | 4.0 | 31 | 8513 | -21.3 | -37.2 | 28 | 3.5 | 31 | 8278 | -35.8 | -44.3 | 28 | 16.5 | 31 | 8278 | -35.8 | -44.3 | 28 | 16.5 | 31 | 8278 | -35.8 | -44.3 | 28 | 16.5 | 31 | 8278 | -35.8 | -44.3 | 28 | 16.5 | | | | | | | |
| 300 | 31 | 9487 | -40.3 | -49.2 | 25 | 9.8 | 18 | 8960 | -51.3 | -57.3 | 32 | 5.0 | 31 | 9732 | -29.5 | -44.7 | 27 | 5.2 | 31 | 9332 | -48.3 | -58.3 | 28 | 17.1 | 31 | 9332 | -48.3 | -58.3 | 28 | 17.1 | 31 | 9332 | -48.3 | -58.3 | 28 | 17.1 | 31 | 9332 | -48.3 | -58.3 | 28 | 17.1 | | | | | | | |
| 250 | 31 | 10707 | -49.7 | -57.7 | 26 | 11.8 | 18 | 10131 | -55.2 | -61.3 | 33 | 4.3 | 31 | 11008 | -39.7 | -53.9 | 25 | 7.0 | 31 | 10534 | -52.1 | -61.3 | 28 | 18.6 | 31 | 10534 | -52.1 | -61.3 | 28 | 18.6 | 31 | 10534 | -52.1 | -61.3 | 28 | 18.6 | 31 | 10534 | -52.1 | -61.3 | 28 | 18.6 | | | | | | | |
| 200 | 31 | 12134 | -59.3 | -67.3 | 27 | 13.0 | 18 | 12476 | -65.1 | -71.1 | 33 | 1.8 | 31 | 12944 | -52.0 | -59.0 | 25 | 10.7 | 31 | 11953 | -58.6 | -67.3 | 28 | 20.2 | 31 | 11953 | -58.6 | -67.3 | 28 | 20.2 | 31 | 11953 | -58.6 | -67.3 | 28 | 20.2 | 31 | 11953 | -58.6 | -67.3 | 28 | 20.2 | | | | | | | |
| 150 | 31 | 13963 | -61.5 | -70.5 | 26 | 13.1 | 18 | 13447 | -69.1 | -75.1 | 26 | 9.3 | 31 | 13845 | -69.0 | -75.0 | 26 | 11.8 | 31 | 12789 | -59.9 | -67.3 | 28 | 18.2 | 31 | 12789 | -59.9 | -67.3 | 28 | 18.2 | 31 | 12789 | -59.9 | -67.3 | 28 | 18.2 | 31 | 12789 | -59.9 | -67.3 | 28 | 18.2 | | | | | | | |
| 125 | 31 | 15125 | -61.5 | -70.5 | 26 | 12.6 | 18 | 14654 | -69.6 | -75.6 | 25 | 9.8 | 31 | 15380 | -73.7 | -79.7 | 27 | 14.8 | 31 | 14904 | -58.1 | -67.3 | 28 | 17.7 | 31 | 14904 | -58.1 | -67.3 | 28 | 17.7 | 31 | 14904 | -58.1 | -67.3 | 28 | 17.7 | 31 | 14904 | -58.1 | -67.3 | 28 | 17.7 | | | | | | | |
| 100 | 31 | 16429 | -62.5 | -71.5 | 26 | 9.2 | 18 | 16115 | -69.4 | -75.4 | 17 | 6.3 | 31 | 16664 | -71.0 | -77.0 | 27 | 13.2 | 31 | 16307 | -58.7 | -67.3 | 28 | 27.0 | 31 | 16307 | -58.7 | -67.3 | 28 | 27.0 | 31 | 16307 | -58.7 | -67.3 | 28 | 27.0 | 31 | 16307 | -58.7 | -67.3 | 28 | 27.0 | | | | | | | |
| 75 | 31 | 17801 | -63.4 | -72.4 | 27 | 5.6 | 18 | 17492 | -70.6 | -76.6 | 14 | 1.4 | 31 | 18037 | -74.1 | -80.1 | 27 | 15.1 | 31 | 17518 | -57.7 | -67.3 | 28 | 6.0 | 31 | 17518 | -57.7 | -67.3 | 28 | 6.0 | 31 | 17518 | -57.7 | -67.3 | 28 | 6.0 | 31 | 17518 | -57.7 | -67.3 | 28 | 6.0 | | | | | | | |
| 50 | 31 | 18622 | -62.6 | -72.6 | 26 | 2.3 | 18 | 18458 | -70.6 | -76.6 | 13 | 1.6 | 31 | 18713 | -71.8 | -77.8 | 28 | 5.0 | 31 | 18558 | -56.5 | -67.3 | 28 | 3.6 | 31 | 18558 | -56.5 | -67.3 | 28 | 3.6 | 31 | 18558 | -56.5 | -67.3 | 28 | 3.6 | 31 | 18558 | -56.5 | -67.3 | 28 | 3.6 | | | | | | | |
| 25 | 31 | 19576 | -60.6 | -70.6 | 18 | 8.8 | 18 | 19473 | -68.1 | -74.1 | 11 | 2.0 | 31 | 19634 | -65.9 | -71.9 | 16 | 8.8 | 31 | 19538 | -55.3 | -67.3 | 25 | 1.8 | 31 | 19538 | -55.3 | -67.3 | 25 | 1.8 | 31 | 19538 | -55.3 | -67.3 | 25 | 1.8 | 31 | 19538 | -55.3 | -67.3 | 25 | 1.8 | | | | | | | |
| 0 | 31 | 21715 | -58.3 | -68.3 | 08 | 1.9 | 18 | 21476 | -67.7 | -73.7 | 0 | 2.9 | 31 | 22050 | -62.9 | -68.9 | 10 | 6.6 | 31 | 21732 | -54.8 | -67.3 | 04 | 6.6 | 31 | 21732 | -54.8 | -67.3 | 04 | 6.6 | 31 | 21732 | -54.8 | -67.3 | 04 | 6.6 | 31 | 21732 | -54.8 | -67.3 | 04 | 6.6 | | | | | | | |
| -25 | 31 | 22130 | -54.9 | -68.9 | 08 | 3.2 | 18 | 22150 | -67.4 | -73.4 | 09 | 3.4 | 31 | 22133 | -59.6 | -65.6 | 09 | 17.4 | 31 | 21834 | -53.2 | -67.3 | 08 | 1.9 | 31 | 21834 | -53.2 | -67.3 | 08 | 1.9 | 31 | 21834 | -53.2 | -67.3 | 08 | 1.9 | 31 | 21834 | -53.2 | -67.3 | 08 | 1.9 | | | | | | | |
| -50 | 31 | 23983 | -51.6 | -65.6 | 08 | 3.9 | 18 | 24054 | -66.9 | -72.9 | 09 | 4.6 | 31 | 23963 | -54.6 | -60.6 | 09 | 28.1 | 31 | 23993 | -51.1 | -67.3 | 08 | 2.3 | 31 | 23993 | -51.1 | -67.3 | 08 | 2.3 | 31 | 23993 | -51.1 | -67.3 | 08 | 2.3 | 31 | 23993 | -51.1 | -67.3 | 08 | 2.3 | | | | | | | |
| -75 | 31 | 25179 | -49.3 | -63.3 | 08 | 3.8 | 18 | 25261 | -55.2 | -61.2 | 09 | 8.1 | 31 | 25183 | -52.1 | -58.1 | 09 | 28.8 | 31 | 25182 | -49.9 | -67.3 | 08 | 2.7 | 31 | 25182 | -49.9 | -67.3 | 08 | 2.7 | 31 | 25182 | -49.9 | -67.3 | 08 | 2.7 | 31 | 25182 | -49.9 | -67.3 | 08 | 2.7 | | | | | | | |
| -100 | 31 | 26550 | -47.0 | -61.0 | 08 | 3.2 | 18 | 26750 | -45.0 | -51.0 | 09 | 8.1 | 31 | 26623 | -46.5 | -52.5 | 09 | 30.2 | 31 | 26647 | -47.8 | -53.8 | 08 | 04 | 31 | 26647 | -47.8 | -53.8 | 08 | 04 | 31 | 26647 | -47.8 | -53.8 | 08 | 04 | 31 | 26647 | -47.8 | -53.8 | 08 | 04 | | | | | | | |
| -125 | 31 | 28550 | -43.5 | -53.5 | 08 | 3.0 | 18 | 28692 | -42.8 | -48.8 | 08 | 11.0 | 31 | 28553 | -42.6 | -48.6 | 08 | 26.9 | 31 | 28563 | -43.7 | -49.7 | 03 | 1.1 | 31 | 28575 | -43.2 | -49.2 | 03 | 1.1 | 31 | 28575 | -43.2 | -49.2 | 03 | 1.1 | 31 | 28575 | -43.2 | -49.2 | 03 | 1.1 | | | | | | | |
| -150 | 31 | 31320 | -38.5 | -48.5 | 03 | 2.4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | </ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Average monthly values

HAPP, JIM, S. C. 44.

ST CLOUD, MINN.
977 MB

ST PAUL IS., ALASKA
1013 MB

SALEM, OREG.
1014 MB

SAN JUAN, P. R.
1014 MB

SAULT STE MARIE, MICH
900 MR

SHEMYA, ALASKA
1912 MB

SHREVEPORT, LA.
1000 MO

SPOKANE, WASH
822 AM

SWAN ISLAND, W. I
1012 MB

TAMPA, FLA.
1017 MB

TOPEKA, KANS.

TRUK, CAROLINE IS.

TUCSON, ARIZ.

ENBERG AFB, CALIF

| 993 MB | | | | | | | | | | | | | 10.0 MB | | | | | | | | | | | | | 924 MB | | | | | | | | | | | | | 1005 MB | | | | | | | | | | | | |
|---------|----|----|-------|-------|-------|------|------|-------|-------|-------|-------|-----|---------|----|-------|-------|-------|-----|-------|-------|-------|-------|-------|-----|-------|--------|-------|-------|-------|------|------|--|--|--|--|--|--|--|---------|--|--|--|--|--|--|--|--|--|--|--|--|
| SURFACE | 31 | 1 | 8 | 20.1 | 17.9 | 0.9 | 2.1 | 31 | 268 | 14.9 | 12.0 | 19 | 1.9 | 31 | 2 | 28.2 | 24.5 | 0.6 | 4.1 | 31 | 789 | 16.7 | -1.3 | 14 | 3.6 | 31 | 100 | 10.1 | 8.4 | 35 | 1.6 | | | | | | | | | | | | | | | | | | | | |
| 1000 | 31 | 1 | 58 | 20.8 | 16.8 | 1.0 | 4.2 | 31 | 124 | | | | 31 | 93 | 27.4 | 23.4 | 0.7 | 5.1 | 31 | 102 | | | | 31 | 144 | 10.7 | 8.1 | 36 | 2.0 | | | | | | | | | | | | | | | | | | | | | | |
| 950 | 31 | 1 | 598 | 18.7 | 13.2 | 1.2 | 5.7 | 31 | 558 | 17.0 | 10.4 | 22 | 6.9 | 31 | 545 | 24.2 | 20.1 | 0.8 | 7.6 | 31 | 544 | | | | 31 | 579 | 13.2 | 4.6 | 36 | 5.0 | | | | | | | | | | | | | | | | | | | | | |
| 900 | 31 | 1 | 1063 | 16.2 | 8.6 | 1.2 | 4.0 | 31 | 1022 | 15.5 | 7.7 | 23 | 9.9 | 31 | 1020 | 21.5 | 16.3 | 0.9 | 8.5 | 31 | 1013 | 21.0 | -9.9 | 16 | 2.5 | 31 | 1030 | 14.2 | -6.6 | 0.1 | 5.3 | | | | | | | | | | | | | | | | | | | | |
| 850 | 31 | 1 | 1543 | 13.8 | 3.5 | 1.1 | 3.5 | 31 | 1506 | 12.9 | 3.9 | 24 | 9.3 | 31 | 1515 | 18.5 | 12.7 | 0.9 | 8.3 | 31 | 1505 | 14.8 | -3.2 | 18 | 1.1 | 31 | 1512 | 13.1 | -4.5 | 35 | 4.3 | | | | | | | | | | | | | | | | | | | | |
| 800 | 31 | 1 | 2035 | 10.2 | -0.2 | 0.5 | 7.1 | 31 | 2035 | 10.5 | 8.6 | 0.9 | 8.3 | 31 | 2020 | 14.6 | | | 8.3 | 31 | 2020 | 14.6 | -5.6 | 12 | 1.4 | 31 | 2019 | 10.7 | -8.4 | 34 | 3.4 | | | | | | | | | | | | | | | | | | | | |
| 750 | 31 | 1 | 2595 | 8.8 | -2.0 | 0.2 | 3.2 | 31 | 2595 | 8.8 | -5.1 | 6.5 | 7.2 | 31 | 2578 | 13.8 | 4.8 | 0.7 | 6.2 | 31 | 2581 | 13.8 | -8.4 | 5.5 | 2.2 | 31 | 2580 | 8.8 | -1.1 | 33.8 | 2.8 | | | | | | | | | | | | | | | | | | | | |
| 700 | 31 | 1 | 3161 | 5.8 | -0.6 | 1.0 | 2.0 | 31 | 3112 | 3.7 | -10.1 | 2.5 | 7.2 | 31 | 3162 | 10.6 | -7.9 | 0.9 | 6.3 | 31 | 3132 | 6.5 | -12.1 | 2.1 | 5.2 | 31 | 3120 | 4.7 | -14.0 | 3.1 | 3.8 | | | | | | | | | | | | | | | | | | | | |
| 650 | 31 | 1 | 3764 | 2.5 | -13.1 | 1.0 | 8.3 | 31 | 3706 | -4.6 | -13.8 | 2.6 | 7.8 | 31 | 3772 | 7.1 | -3.5 | 0.9 | 5.8 | 31 | 3727 | 2.2 | -15.9 | 2.2 | 6.0 | 31 | 3715 | 1.3 | -17.7 | 3.0 | 5.5 | | | | | | | | | | | | | | | | | | | | |
| 600 | 31 | 1 | 4307 | -1.0 | -17.7 | 2.9 | 4.3 | 31 | 4345 | -5.0 | -17.5 | 2.6 | 8.3 | 31 | 4330 | 3.6 | -6.9 | 0.9 | 5.2 | 31 | 4377 | -2.2 | -19.9 | 2.3 | 6.3 | 31 | 4360 | -2.7 | -20.9 | 2.9 | 6.4 | | | | | | | | | | | | | | | | | | | | |
| 550 | 31 | 1 | 5093 | -5.3 | -21.1 | 2.8 | 2.4 | 31 | 5015 | -9.9 | -21.4 | 2.6 | 8.7 | 31 | 5124 | -3.3 | -11.2 | 0.9 | 4.3 | 31 | 5055 | -6.7 | -24.5 | 2.4 | 6.5 | 31 | 5036 | -7.5 | -24.4 | 2.9 | 6.6 | | | | | | | | | | | | | | | | | | | | |
| 500 | 31 | 1 | 5637 | -10.4 | -25.8 | 0.9 | 5.1 | 31 | 5792 | -14.4 | -27.7 | 0.6 | 9.3 | 31 | 5889 | -4.4 | -10.0 | 1.0 | 2.7 | 31 | 5793 | -12.3 | -29.2 | 2.5 | 7.3 | 31 | 5778 | -12.8 | -28.7 | 2.8 | 7.6 | | | | | | | | | | | | | | | | | | | | |
| 450 | 31 | 1 | 6337 | -15.9 | -30.5 | 2.9 | 5.1 | 31 | 6397 | -19.4 | -34.0 | 0.2 | 11.1 | 31 | 6487 | -11.1 | -25.8 | 0.5 | 2.5 | 31 | 6387 | -15.1 | -33.7 | 2.3 | 7.3 | 31 | 6369 | -15.8 | -34.0 | 0.0 | 7.6 | | | | | | | | | | | | | | | | | | | | |
| 400 | 31 | 1 | 7519 | -21.9 | -35.7 | 2.8 | 7.4 | 31 | 7403 | -26.6 | -40.1 | 2.6 | 11.2 | 31 | 7615 | -14.6 | -25.8 | 1.2 | 1.5 | 31 | 7465 | -25.1 | -33.5 | 2.6 | 10.2 | 31 | 7340 | -25.5 | -33.8 | 2.9 | 10.1 | | | | | | | | | | | | | | | | | | | | |
| 350 | 31 | 1 | 8488 | -28.9 | -42.9 | 2.7 | 9.3 | 31 | 8354 | -33.6 | -45.7 | 2.6 | 12.3 | 31 | 8612 | -21.4 | -36.5 | 2.3 | 1.3 | 31 | 8421 | -32.4 | -45.6 | 2.7 | 10.9 | 31 | 8394 | -32.9 | -46.2 | 2.9 | 11.2 | | | | | | | | | | | | | | | | | | | | |
| 300 | 31 | 1 | 9571 | -37.4 | -50.4 | 2.7 | 12.7 | 31 | 9417 | -41.7 | -47.5 | 2.5 | 12.9 | 31 | 9731 | -29.4 | -44.2 | 2.5 | 5.2 | 31 | 9488 | -41.1 | -48.5 | 2.6 | 13.0 | 31 | 9459 | -41.6 | -52.6 | 2.0 | 12.9 | | | | | | | | | | | | | | | | | | | | |
| 250 | 31 | 1 | 10806 | -46.3 | -59.2 | 2.7 | 17.1 | 31 | 10630 | -50.6 | | 2.6 | 12.7 | 31 | 11006 | -39.8 | -54.8 | 2.5 | 8.4 | 31 | 10701 | -50.6 | | 27 | 15.3 | 31 | 10670 | -51.1 | | 29 | 14.2 | | | | | | | | | | | | | | | | | | | | |
| 200 | 31 | 1 | 12254 | -54.9 | | 2.7 | 22.2 | 31 | 12053 | -59.6 | | 2.6 | 13.7 | 31 | 12490 | -52.3 | | 25 | 9.6 | 31 | 12425 | -59.3 | | 27 | 19.2 | 31 | 12407 | -60.0 | | 29 | 14.9 | | | | | | | | | | | | | | | | | | | | |
| 175 | 31 | 1 | 13096 | -59.8 | | 2.7 | 24.3 | 31 | 12884 | -64.1 | | 2.6 | 14.2 | 31 | 13339 | -59.5 | -21.8 | 25 | 10.8 | 31 | 13266 | -61.5 | | 27 | 20.0 | 31 | 13243 | -63.0 | | 28 | 13.9 | | | | | | | | | | | | | | | | | | | | |
| 150 | 31 | 1 | 14051 | -62.9 | | 2.7 | 23.1 | 31 | 13843 | -60.0 | | 2.6 | 13.6 | 31 | 14287 | -62.7 | | 26 | 13.8 | 31 | 13912 | -61.1 | | 27 | 19.0 | 31 | 13885 | -66.1 | | 31 | 18.5 | | | | | | | | | | | | | | | | | | | | |
| 125 | 31 | 1 | 15167 | -65.1 | | 2.7 | 19.1 | 31 | 14981 | -60.1 | | 2.6 | 11.4 | 31 | 15364 | -75.2 | | 27 | 12.5 | 31 | 15041 | -62.5 | | 27 | 16.2 | 31 | 14991 | -62.3 | | 27 | 12.4 | | | | | | | | | | | | | | | | | | | | |
| 100 | 31 | 1 | 16519 | -67.7 | | 2.8 | 12.8 | 31 | 16374 | -60.9 | | 2.7 | 9.7 | 31 | 16641 | -80.0 | | 27 | 10.4 | 31 | 16413 | -63.8 | | 26 | 12.9 | 31 | 16368 | -62.7 | | 27 | 10.2 | | | | | | | | | | | | | | | | | | | | |
| 75 | 31 | 1 | 17857 | -69.0 | | 2.9 | 4.6 | 31 | 17767 | -60.3 | | 2.7 | 5.8 | 31 | 17905 | -77.7 | | 28 | 4.5 | 31 | 17778 | -64.5 | | 26 | 6.5 | 31 | 17741 | -62.5 | | 27 | 5.5 | | | | | | | | | | | | | | | | | | | | |
| 50 | 29 | 18 | 18508 | -67.6 | | 3.4 | 3.1 | 31 | 18650 | -59.6 | | 2.7 | 3.6 | 31 | 18679 | -72.6 | | 27 | 2.5 | 31 | 18597 | -62.6 | | 25 | 2.30 | 31 | 18567 | -60.8 | | 26 | 2.2 | | | | | | | | | | | | | | | | | | | | |
| 25 | 30 | 19 | 19297 | -63.0 | | 4.0 | 3.2 | 31 | 19362 | -59.7 | | 3.0 | 1.8 | 31 | 19577 | -63.0 | | 17 | 1.4 | 31 | 19539 | -60.4 | | 16 | 1.1 | 31 | 19531 | -58.9 | | 20 | 3.3 | | | | | | | | | | | | | | | | | | | | |
| 50 | 29 | 20 | 20731 | -59.0 | | 4.8 | 4.9 | 31 | 20721 | -56.2 | | 3.4 | 5.5 | 29 | 22074 | -63.9 | | 30 | 1.0 | 31 | 20695 | -58.1 | | 29 | 3.2 | 28 | 20677 | -58.4 | | 27 | 9.9 | | | | | | | | | | | | | | | | | | | | |
| 25 | 30 | 22 | 22145 | -55.2 | | 5.7 | 7.3 | 30 | 22149 | -53.8 | | 4.8 | 1.9 | 28 | 22208 | -60.0 | | 40 | 15.8 | 31 | 22109 | -55.1 | | 0.8 | 4.2 | 28 | 22206 | -54.9 | | 0.8 | 2.6 | | | | | | | | | | | | | | | | | | | | |
| 15 | 30 | 23 | 23997 | -51.5 | | 6.7 | 8.5 | 30 | 24008 | -51.2 | | 5.8 | 2.0 | 28 | 23898 | -55.2 | | 49 | 25.1 | 30 | 23958 | -51.3 | | 0.9 | 6.3 | 27 | 23944 | -52.2 | | 0.9 | 3.4 | | | | | | | | | | | | | | | | | | | | |
| 25 | 25 | 25 | 25180 | -48.7 | | 7.9 | 8.9 | 30 | 25197 | -49.7 | | 6.9 | 1.7 | 25 | 25070 | -52.1 | | 59 | 26.5 | 30 | 25148 | -49.0 | | 0.8 | 6.3 | 27 | 25128 | -50.5 | | 0.8 | 4.2 | | | | | | | | | | | | | | | | | | | | |
| 15 | 19 | 28 | 26509 | -47.2 | | 9.8 | 8.8 | 28 | 26664 | -47.4 | | 7.7 | 1.2 | 19 | 26527 | -47.9 | | 59 | 30.2 | 29 | 26682 | -46.0 | | 0.9 | 5.9 | 27 | 26692 | -47.5 | | 0.9 | 3.4 | | | | | | | | | | | | | | | | | | | | |
| 15 | 19 | 28 | 28324 | -46.2 | | 11.3 | 28 | 28582 | -46.0 | | 10.0 | 2.8 | 1.4 | 28 | 28441 | -43.3 | | 59 | 38.0 | 29 | 28584 | -42.5 | | 0.9 | 6.5 | 27 | 28503 | -43.9 | | 0.9 | 2.9 | | | | | | | | | | | | | | | | | | | | |
| 7 | 5 | 3 | 31387 | -37.5 | | 14.0 | 31 | 31829 | -38.8 | | 28 | 2.4 | | | | | | 19 | 31322 | -39.7 | | 0.9 | 5.0 | 2.0 | 31 | 31258 | -36.5 | | 0.4 | 1.2 | | | | | | | | | | | | | | | | | | | | | |
| 7 | 5 | 3 | | | | | | | | | | | | | | | | 13 | 33801 | -33.7 | | | | 20 | 33726 | -36.0 | | 0.4 | 3.3 | | | | | | | | | | | | | | | | | | | | | | |
| 5 | 3 | 2 | | | | | | | | | | | | | | | | 5 | 36610 | -30.9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

RAWINSONDE DATA

Average monthly values

MAY 1977

| VICTORIA, TEXAS
1012 MB | | | | | | | | | | WAKE IS., PACIFIC OCEAN
1015 MB | | | | | | | | | | WALLIS IS., PAC. OCEAN
1020 MB | | | | | | | | | | WASHINGTON ISLES INT. IS.
1011 MB | | | | | | | | | | WATERBURY, CALIF.
1014 MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|----|--------|-------|-------|-----|------|----|--------|-------|------------------------------------|-----|------|--------|--------|-------|-------|-----|------|--------|-----------------------------------|-------|-----|------|-----|--------|-------|-------|-----|------|--------------------------------------|--------|-------|-------|-----|------|-----|--------|-------|-------|-----------------------------------|------|-----|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----|
| Standard pressure
surface (mb) | | | | | | | | | | Standard pressure
surface (mb) | | | | | | | | | | Standard pressure
surface (mb) | | | | | | | | | | Standard pressure
surface (mb) | | | | | | | | | | Standard pressure
surface (mb) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| No of observations | | | | | | | | | | No of observations | | | | | | | | | | No of observations | | | | | | | | | | No of observations | | | | | | | | | | No of observations | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Temperature | | | | | | | | | | Temperature | | | | | | | | | | Temperature | | | | | | | | | | Temperature | | | | | | | | | | Temperature | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dew Point | | | | | | | | | | Dew Point | | | | | | | | | | Dew Point | | | | | | | | | | Dew Point | | | | | | | | | | Dew Point | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Speed | | | | | | | | | | Speed | | | | | | | | | | Speed | | | | | | | | | | Speed | | | | | | | | | | Speed | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Resultant
Wind | | | | | | | | | | Resultant
Wind | | | | | | | | | | Resultant
Wind | | | | | | | | | | Resultant
Wind | | | | | | | | | | Resultant
Wind | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Miles per hour | | | | | | | | | | Miles per hour | | | | | | | | | | Miles per hour | | | | | | | | | | Miles per hour | | | | | | | | | | Miles per hour | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SURFACE | 31 | 33 | 18.7 | 16.9 | 09 | 1.3 | 31 | 5 | 26.6 | 22.4 | 08 | 4.7 | 30 | 14.9 | 11.9 | 32 | 1.1 | 31 | 85 | 13.9 | 10.6 | 26 | 4.5 | 31 | 44 | 16.9 | 15.8 | 33 | 1.6 | 31 | 130 | 19.2 | 16.3 | 09 | 1.2 | 31 | 160 | 19.2 | 16.3 | 09 | 1.2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1000 | 31 | 135 | 19.9 | 18.7 | 10 | 2.3 | 31 | 13 | 25.1 | 21.1 | 09 | 6.0 | 30 | 14.9 | 11.9 | 32 | 1.1 | 31 | 174 | 14.7 | 9.3 | 28 | 4.7 | 31 | 160 | 19.2 | 16.3 | 09 | 1.2 | 31 | 160 | 19.2 | 16.3 | 09 | 1.2 | 31 | 160 | 19.2 | 16.3 | 09 | 1.2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 950 | 31 | 575 | 18.0 | 13.9 | 12 | 4.4 | 31 | 581 | 21.4 | 19.1 | 09 | 6.0 | 30 | 14.9 | 11.9 | 32 | 1.1 | 31 | 611 | 14.6 | 6.0 | 30 | 4.8 | 31 | 160 | 19.2 | 16.3 | 09 | 1.2 | 31 | 160 | 19.2 | 16.3 | 09 | 1.2 | 31 | 160 | 19.2 | 16.3 | 09 | 1.2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 900 | 31 | 1,040 | 15.6 | 10.2 | 14 | 5.1 | 31 | 1,051 | 18.3 | 15.7 | 09 | 6.8 | 30 | 1,064 | 13.8 | 3.3 | 30 | 4.7 | 31 | 1,065 | 12.4 | 3.5 | 30 | 6.9 | 31 | 1,066 | 16.4 | 8.5 | 12 | 2.1 | 31 | 1,066 | 16.4 | 8.5 | 12 | 2.1 | 31 | 1,066 | 16.4 | 8.5 | 12 | 2.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 850 | 31 | 1,524 | 13.7 | 6.2 | 15 | 4.6 | 31 | 1,540 | 15.4 | 13.2 | 09 | 6.4 | 30 | 1,544 | 11.4 | -3.29 | 5.1 | 31 | 1,543 | 10.3 | 0.8 | 31 | 7.4 | 31 | 1,550 | 13.3 | 5.0 | 10 | 1.8 | 31 | 1,550 | 13.3 | 5.0 | 10 | 1.8 | 31 | 1,550 | 13.3 | 5.0 | 10 | 1.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 800 | 31 | 2,034 | 12.0 | -6.17 | 3.0 | 3.1 | 31 | 2,053 | 13.2 | 8.7 | 09 | 6.4 | 30 | 2,048 | 8.6 | -3.0 | 5.1 | 31 | 2,046 | 8.4 | -2.1 | 30 | 7.1 | 31 | 2,058 | 10.7 | -2.2 | 9 | 1.9 | 31 | 2,058 | 10.7 | -2.2 | 9 | 1.9 | 31 | 2,058 | 10.7 | -2.2 | 9 | 1.9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 750 | 31 | 2,571 | 9.3 | -2.4 | 1.9 | 1.9 | 31 | 2,594 | 11.0 | -7.08 | 3.5 | 3.0 | 31 | 2,578 | 5.8 | -6.6 | 6.2 | 31 | 2,579 | 5.5 | -6.9 | 29 | 6.6 | 31 | 2,588 | 8.0 | -5.0 | 10 | 1.3 | 31 | 2,588 | 8.0 | -5.0 | 10 | 1.3 | 31 | 2,588 | 8.0 | -5.0 | 10 | 1.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 700 | 31 | 3,142 | 6.2 | -5.4 | 2.3 | 1.7 | 31 | 3,188 | 8.8 | -4.9 | 09 | 3.5 | 30 | 3,141 | 2.8 | -10.5 | 6.2 | 31 | 3,138 | -2.2 | -10.4 | 28 | 8.0 | 31 | 3,161 | 5.1 | -10.1 | 12 | 0.8 | 31 | 3,161 | 5.1 | -10.1 | 12 | 0.8 | 31 | 3,161 | 5.1 | -10.1 | 12 | 0.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 650 | 31 | 3,743 | 2.5 | -9.6 | 2.5 | 1.9 | 31 | 3,774 | 5.6 | -10.1 | 09 | 3.4 | 30 | 3,735 | -8.4 | -14.8 | 7.2 | 31 | 3,735 | -1.3 | -14.7 | 28 | 9.1 | 31 | 3,760 | 1.9 | -13.2 | 2 | 0.8 | 31 | 3,760 | 1.9 | -13.2 | 2 | 0.8 | 31 | 3,760 | 1.9 | -13.2 | 2 | 0.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 600 | 31 | 4,389 | -1.7 | -14.3 | 2.7 | 2.8 | 31 | 4,429 | 2.1 | -14.4 | 09 | 3.1 | 30 | 4,373 | -6.2 | -18.0 | 29 | 8.1 | 4,367 | -5.0 | -18.6 | 28 | 10.4 | 30 | 4,406 | -2.1 | -16.5 | 25 | 0.5 | 31 | 4,406 | -2.1 | -16.5 | 25 | 0.5 | 31 | 4,406 | -2.1 | -16.5 | 25 | 0.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 550 | 31 | 5,070 | -6.1 | -20.4 | 2.7 | 4.2 | 31 | 5,124 | -1.6 | -20.0 | 09 | 3.0 | 30 | 5,049 | -6.2 | -23.0 | 29 | 8.4 | 5,043 | -9.3 | -23.1 | 28 | 10.6 | 30 | 5,086 | -6.4 | -21.0 | 26 | 1.0 | 31 | 5,086 | -6.4 | -21.0 | 26 | 1.0 | 31 | 5,086 | -6.4 | -21.0 | 26 | 1.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 500 | 31 | 5,815 | -11.1 | -25.2 | 2.7 | 6.0 | 31 | 5,879 | -6.2 | -24.3 | 08 | 2.3 | 30 | 5,788 | -12.9 | -28.3 | 28 | 10.1 | 5,777 | -13.8 | -29.5 | 27 | 11.7 | 30 | 5,831 | -11.3 | -26.3 | 27 | 0.7 | 31 | 5,831 | -11.3 | -26.3 | 27 | 0.7 | 31 | 5,831 | -11.3 | -26.3 | 27 | 0.7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 450 | 31 | 6,613 | -16.5 | -29.9 | 2.8 | 7.3 | 31 | 6,689 | -11.7 | -28.2 | 08 | 2.3 | 30 | 6,580 | -18.5 | -32.8 | 29 | 9.5 | 6,567 | -19.1 | -34.2 | 28 | 12.1 | 30 | 6,626 | -16.6 | -30.4 | 27 | 3.6 | 31 | 6,626 | -16.6 | -30.4 | 27 | 3.6 | 31 | 6,626 | -16.6 | -30.4 | 27 | 3.6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 400 | 31 | 7,493 | -22.6 | -35.9 | 2.8 | 9.0 | 31 | 7,588 | -18.1 | -32.6 | 08 | 0.8 | 30 | 7,451 | -26.7 | -38.7 | 28 | 10.2 | 7,437 | -25.5 | -39.6 | 28 | 12.7 | 30 | 7,508 | -22.8 | -36.1 | 27 | 4.8 | 31 | 7,508 | -22.8 | -36.1 | 27 | 4.8 | 31 | 7,508 | -22.8 | -36.1 | 27 | 4.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 350 | 31 | 8,480 | -25.8 | -41.6 | 2.7 | 10.6 | 31 | 8,571 | -25.5 | -38.6 | 31 | 2.4 | 30 | 8,409 | -31.8 | -45.5 | 28 | 9.7 | 8,393 | -32.6 | -45.9 | 28 | 12.1 | 30 | 8,473 | -29.9 | -42.8 | 27 | 7.0 | 31 | 8,473 | -29.9 | -42.8 | 27 | 7.0 | 31 | 8,473 | -29.9 | -42.8 | 27 | 7.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 300 | 31 | 9,540 | -36.3 | -48.4 | 2.7 | 13.5 | 31 | 9,671 | -33.8 | -46.8 | 29 | 6.1 | 29 | 9,476 | -40.0 | -51.8 | 28 | 10.8 | 9,461 | -40.8 | -53.0 | 27 | 12.8 | 30 | 9,532 | -38.4 | -48.8 | 27 | 8.6 | 31 | 9,532 | -38.4 | -48.8 | 27 | 8.6 | 31 | 9,532 | -38.4 | -48.8 | 27 | 8.6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 250 | 31 | 10,770 | -47.8 | -58.0 | 2.6 | 17.0 | 31 | 10,922 | -43.9 | -54.9 | 28 | 10.7 | 29 | 10,697 | -49.3 | -61.2 | 28 | 11.4 | 10,678 | -50.0 | -62.2 | 27 | 14.7 | 30 | 10,781 | -47.7 | -57.7 | 27 | 11.3 | 31 | 10,781 | -47.7 | -57.7 | 27 | 11.3 | 31 | 10,781 | -47.7 | -57.7 | 27 | 11.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 200 | 31 | 12,208 | -58.0 | -67.6 | 2.6 | 21.7 | 30 | 12,383 | -55.4 | -64.4 | 27 | 17.8 | 29 | 12,128 | -58.7 | -70.0 | 28 | 13.7 | 12,105 | -59.0 | -71.1 | 27 | 14.0 | 30 | 12,222 | -57.0 | -67.0 | 27 | 16.4 | 31 | 12,222 | -57.0 | -67.0 | 27 | 16.4 | 31 | 12,222 | -57.0 | -67.0 | 27 | 16.4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 175 | 31 | 13,042 | -61.8 | -71.2 | 2.6 | 23.7 | 30 | 13,222 | -61.4 | -70.0 | 27 | 19.2 | 29 | 13,055 | -62.1 | -73.4 | 28 | 13.8 | 13,036 | -62.7 | -73.8 | 27 | 13.7 | 30 | 13,060 | -60.4 | -70.4 | 27 | 20.1 | 31 | 13,060 | -60.4 | -70.4 | 27 | 20.1 | 31 | 13,060 | -60.4 | -70.4 | 27 | 20.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 150 | 31 | 13,993 | -62.8 | -72.2 | 2.6 | 21.6 | 30 | 14,169 | -62.2 | -71.2 | 27 | 19.1 | 29 | 13,911 | -61.6 | -72.9 | 28 | 12.7 | 13,887 | -61.8 | -73.1 | 27 | 13.9 | 30 | 14,016 | -61.8 | -71.8 | 27 | 19.9 | 31 | 14,016 | -61.8 | -71.8 | 27 | 19.9 | 31 | 14,016 | -61.8 | -71.8 | 27 | 19.9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 125 | 31 | 15,113 | -64.5 | -74.9 | 2.6 | 16.9 | 30 | 15,290 | -72.0 | -80.0 | 27 | 14.4 | 28 | 15,049 | -60.0 | -71.0 | 28 | 12.2 | 15,020 | -60.4 | -71.4 | 27 | 13.0 | 30 | 15,161 | -62.0 | -72.0 | 27 | 16.5 | 31 | 15,161 | -62.0 | -72.0 | 27 | 16.5 | 31 | 15,161 | -62.0 | -72.0 | 27 | 16.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 100 | 31 | 16,470 | -66.8 | -76.6 | 2.6 | 12.7 | 28 | 16,558 | -74.5 | -82.5 | 28 | 6.4 | 26 | 16,439 | -60.9 | -71.9 | 29 | 9.1 | 16,408 | -61.1 | -72.1 | 28 | 16.8 | 30 | 16,508 | -65.1 | -75.1 | 27 | 11.6 | 31 | 16,508 | -65.1 | -75.1 | 27 | 11.6 | 31 | 16,508 | -65.1 | -75.1 | 27 | 11.6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 80 | 31 | 17,815 | -67.6 | -77.6 | 2.5 | 6.2 | 25 | 17,852 | -74.1 | -82.1 | 34 | 2.2 | 28 | 17,825 | -60.9 | -71.9 | 29 | 6.5 | 17,792 | -61.1 | -72.1 | 29 | 6.6 | 31 | 17,865 | -65.6 | -75.6 | 27 | 4.3 | 31 | 17,865 | -65.6 | -75.6 | 27 | 4.3 | 31 | 17,865 | -65.6 | -75.6 | 27 | 4.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 70 | 31 | 18,621 | -66.1 | -76.1 | 2.5 | 1.8 | 24 | 18,637 | -70.8 | -78.8 | 37 | 2.4 | 28 | 18,657 | -59.6 | -70.6 | 31 | 4.3 | 18,623 | -60.2 | -71.2 | 30 | 3.3 | 29 | 18,676 | -64.4 | -74.4 | 27 | 4.9 | 31 | 18,676 | -64.4 | -74.4 | 27 | 4.9 | 31 | 18,676 | -64.4 | -74.4 | 27 | 4.9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 60 | 30 | 19,565 | -62.7 | -72.7 | 1.1 | 3.1 | 24 | 19,563 | -65.3 | -75.3 | 39 | 0.4 | 27 | 19,626 | -58.3 | -69.3 | 33 | 1.9 | 19,589 | -58.4 | -69.4 | 33 | 1.1 | 29 | 19,624 | -61.1 | -71.1 | 27 | 4.9 | 31 | 19,624 | -61.1 | -71.1 | 27 | 4.9 | 31 | 19,624 | -61.1 | -71.1 | 27 | 4.9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 50 | 30 | 20,609 | -59.7 | -69.7 | 0.9 | 4.9 | 26 | 20,605 | -62.2 | -72.2 | 40 | 0.2 | 27 | 20,718 | -56.1 | -67.1 | 34 | 1.4 | 20,743 | -56.1 | -67.1 | 34 | 1.4 | 30 | 20,765 | -58.1 | -68.1 | 27 | 4.9 | 31 | 20,765 | -58.1 | -68.1 | 27 | 4.9 | 31 | 20,765 | -58.1 | -68.1 | 27 | 4.9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 40 | 30 | 22,103 | -63.6 | -73.6 | 0.8 | 6.8 | 21 | 22,084 | -57.6 | -67.6 | 09 | 5.9 | 27 | 22,206 | -53.4 | -64.4 | 30 | 2.0 | 22,125 | -53.5 | -64.5 | 29 | 1.8 | 27 | 22,147 | -57.3 | -67.3 | 27 | 8.8 | 31 | 22,147 | -57.3 | -67.3 | 27 | 8.8 | 31 | 22,147 | -57.3 | -67.3 | 27 | 8.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 30 | 30 | 23,953 | -51.9 | -61.9 | 0.9 | 8.3 | 19 | 23,916 | -52.7 | -62.7 | 09 | 13.3 | 27 | 24,071 | -50.0 | -61.0 | 07 | 3.0 | 24,025 | -51.2 | -62.2 | 09 | 2.2 | 28 | 24,042 | -50.3 | -60.3 | 09 | 8.3 | 31 | 24,042 | -50.3 | -60.3 | 09 | 8.3 | 31 | 24,042 | -50.3 | -60.3 | 09 | 8.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 25 | 27 | 25,139 | -49.8 | -59.8 | 10 | 8.9 | 17 | 25,103 | -49.8 | -59.8 | 08 | 16.7 | 25 | 25,272 | -48.4 | -59.4 | 08 | 3.0 | 25,219 | -49.5 | -60.5 | 09 | 2.1 | 25 | 25,237 | -48.2 | -58.2 | 09 | 7.6 | 31 | 25,237 | -48.2 | -58.2 | 09 | 7.6 | 31 | 25,237 | -48.2 | -58.2 | 09 | 7.6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 20 | 25 | 26,607 | -46.6 | -56.6 | 09 | 9.1 | 16 | 26,571 | -47.5 | -57.5 | 08 | 19.1 | 24 | 26,753 | -42.4 | -53.4 | 08 | 1.8 | 26,689 | -43.7 | -54.7 | 07 | 1.1 | 26 | 26,717 | -45.3 | -55.3 | 07 | 8.8 | 31 | 26,717 | -45.3 | -55.3 | 07 | 8.8 | 31 | 26,717 | -45.3 | -55.3 | 07 | 8.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 | 23 | 28,536 | -42.5 | -52.5 | 09 | 8.4 | 10 | 28,498 | -44.2 | -54.2 | 08 | 15 | 31,420 | -38.1 | -49.1 | 29 | 1.5 | 7 | 31,273 | -39.3 | -50.3 | 31 | 1.3 | 16 | 28,643 | -41.7 | -51.7 | 08 | 3.3 | 31 | 28,643 | -41.7 | -51.7 | 08 | 3.3 | 31 | 28,643 | -41.7 | -51.7 | 08 | 3.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | 20 | 31,280 | -36.8 | -46.8 | 10 | 8.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | </ |

SOLAR RADIATION INTENSITIES

Tabulated in langleys per minute on a surface normal to the direction of the sun.

MAY 1970

| Date | Sun's zenith distance | | | | | | | | |
|------|-----------------------|-------|-------|-------|---|-------|-------|-------|-------|
| | A M | | | | . | P M | | | |
| | 78.7° | 75.7° | 70.7° | 60.0° | | 60.0° | 70.7° | 75.7° | 78.7° |

TUCSON, ARIZ.

| | Air mass | | | | | | | | |
|---------------|----------|-------|-------|-------|-------|-------|-------|-------|-------|
| | 4.56 | 3.6 | 2.74 | 1.83 | * | 1.83 | 2.74 | 3.65 | 4.56 |
| May | | | | | | | | | |
| 1----- | 0.80 | 0.91 | 1.01 | 1.18 | 1.38 | 1.14 | 0.97 | 0.85 | 0.73 |
| 2----- | .87 | .95 | 1.08 | 1.22 | 1.36 | 1.12 | .94 | .83 | .70 |
| 3----- | .84 | .93 | 1.05 | 1.22 | 1.38 | 1.15 | ----- | ----- | .79 |
| 4----- | ----- | .89 | 1.02 | 1.16 | 1.29 | ----- | ----- | ----- | ----- |
| 5----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | .86 | .77 |
| 6----- | ----- | ----- | ----- | 1.20 | 1.36 | 1.19 | 1.03 | .92 | .82 |
| 7----- | .80 | .87 | 1.00 | 1.16 | 1.38 | 1.14 | .98 | .84 | .72 |
| 8----- | .86 | .96 | .81 | 1.00 | 1.29 | 1.01 | ----- | ----- | ----- |
| 9----- | .72 | .85 | .95 | 1.13 | 1.34 | 1.11 | .95 | .83 | .72 |
| 10----- | .80 | .90 | 1.01 | 1.20 | 1.38 | 1.13 | .97 | .88 | .78 |
| 11----- | .80 | .90 | 1.01 | 1.17 | 1.34 | 1.17 | 1.01 | .88 | .79 |
| 12----- | .83 | .91 | 1.01 | 1.13 | 1.32 | 1.14 | .98 | .87 | .78 |
| 13----- | .77 | .87 | 1.00 | 1.17 | ----- | 1.14 | ----- | .85 | .77 |
| 14----- | .77 | .87 | .99 | 1.14 | 1.36 | 1.12 | .99 | .87 | .77 |
| 15----- | .66 | .77 | .77 | .85 | 1.08 | .73 | .48 | .31 | D .23 |
| 16----- | .39 | .32 | .68 | .92 | 1.23 | 1.01 | .83 | .69 | D .57 |
| 17----- | .65 | .77 | .89 | 1.07 | 1.29 | 1.03 | .88 | .72 | .63 |
| 18----- | ----- | ----- | ----- | 1.24 | .98 | .78 | .64 | .55 | ----- |
| 19----- | ----- | ----- | ----- | 1.00 | 1.26 | 1.12 | .95 | .83 | .70 |
| 20----- | .73 | .84 | .96 | 1.11 | 1.27 | 1.00 | .84 | .73 | .67 |
| 21----- | .66 | .79 | .90 | 1.07 | 1.29 | 1.05 | .93 | .84 | .71 |
| 22----- | .68 | .81 | .93 | 1.11 | 1.32 | 1.09 | .91 | .78 | .67 |
| 23----- | .62 | .73 | .89 | 1.09 | 1.30 | ----- | ----- | ----- | ----- |
| 24----- | .65 | .77 | .89 | 1.03 | 1.26 | 1.04 | .87 | .74 | .65 |
| 25----- | .74 | .82 | .94 | 1.16 | 1.31 | 1.11 | .97 | .86 | .77 |
| 26----- | .71 | .82 | .95 | 1.13 | 1.32 | 1.15 | .97 | .79 | .69 |
| 27----- | .73 | .84 | .95 | 1.14 | 1.33 | 1.07 | .89 | .75 | .66 |
| 28----- | .63 | .72 | .83 | .98 | 1.20 | .94 | .68 | .51 | D .39 |
| Aver-
ages | 0.71 | 0.82 | 0.94 | 1.10 | 1.30 | 1.08 | 0.90 | 0.78 | 0.68 |

MADISON, WIS.

| | Air mass | | | | | | | | |
|---------|----------|---------|---------|---------|---------|---------|---------|---------|---------|
| | 4.69 | 3.76 | 2.81 | 1.88 | * | 1.88 | 2.81 | 3.75 | 4.69 |
| May | | | | | | | | | |
| 4----- | ----- | ----- | ----- | \$ 1.11 | \$ 1.32 | ----- | ----- | ----- | ----- |
| 10----- | ----- | \$ 0.83 | \$ 0.97 | \$ 1.17 | \$ 1.40 | \$ 1.18 | ----- | ----- | ----- |
| 14----- | ----- | ----- | \$.83 | \$ 1.07 | ----- | ----- | ----- | ----- | ----- |
| 17----- | \$ 0.66 | \$.78 | \$.94 | \$ 1.12 | ----- | \$ 1.09 | \$ 0.95 | \$ 0.83 | \$ 0.73 |
| 18----- | \$.75 | \$.86 | \$.99 | \$ 1.14 | \$ 1.44 | ----- | ----- | ----- | ----- |
| Average | 0.71 | 0.86 | 0.93 | 1.12 | 1.39 | 1.14 | 0.95 | 0.83 | 0.73 |

| Date | Sun's zenith distance | | | | | | | | |
|------|-----------------------|-------|-------|-------|---|-------|-------|-------|-------|
| | A M | | | | * | P M | | | |
| | 78 7° | 75 7° | 70 7° | 60 0° | | 60 0° | 70 7° | 75 7° | 78 7° |

ALBUQUERQUE, N. MEX.

| | Air mass | | | | | | | | |
|---------------|----------|-------|-------|-------|-------|-------|-------|-------|-------|
| | 4.19 | 3.35 | 2.51 | 1.67 | * | 1.67 | 2.51 | 3.35 | 4.19 |
| May | | | | | | | | | |
| 2----- | 0.81 | 0.94 | 1.06 | 1.24 | 1.46 | 1.33 | 1.15 | 1.01 | 0.94 |
| 3----- | .91 | .97 | 1.13 | 1.28 | 1.47 | 1.26 | 1.09 | .97 | .79 |
| 4----- | .90 | .97 | ----- | ----- | ----- | 1.29 | 1.14 | 1.02 | .96 |
| 5----- | .72 | .84 | ----- | ----- | ----- | 1.21 | ----- | ----- | ----- |
| 6----- | ----- | ----- | ----- | 1.23 | ----- | 1.28 | 1.05 | .97 | .86 |
| 7----- | ----- | ----- | ----- | ----- | 1.41 | ----- | ----- | ----- | ----- |
| 8----- | .82 | .97 | 1.09 | 1.25 | ----- | 1.20 | 1.04 | .91 | .80 |
| 9----- | .77 | .88 | 1.00 | 1.19 | 1.46 | 1.27 | 1.08 | ----- | .82 |
| 10----- | ----- | 1.01 | 1.12 | 1.27 | 1.49 | ----- | ----- | ----- | ----- |
| 11----- | .89 | 1.00 | ----- | 1.27 | ----- | ----- | ----- | ----- | ----- |
| 12----- | .95 | 1.05 | 1.15 | ----- | ----- | 1.15 | ----- | ----- | ----- |
| 13----- | .89 | 1.03 | 1.13 | 1.28 | 1.48 | 1.26 | 1.08 | .91 | .79 |
| 14----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| ** | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 28----- | .83 | .95 | 1.15 | 1.37 | ----- | ----- | ----- | ----- | ----- |
| 29----- | .78 | .88 | 1.00 | 1.14 | 1.33 | 1.19 | .96 | .84 | .72 |
| 30----- | .78 | .87 | 1.00 | 1.19 | 1.36 | 1.24 | 1.10 | .94 | .87 |
| 31----- | ----- | ----- | ----- | .92 | 1.28 | ----- | ----- | ----- | ----- |
| Aver-
ages | 0.84 | 0.94 | 1.06 | 1.20 | 1.41 | 1.24 | 1.08 | 0.95 | 0.84 |

OMAHA, NEBR.

| | Air mass | | | | | | | | |
|---------------|----------|--------|--------|--------|--------|--------|--------|--------|--------|
| | 4.78 | 3.82 | 2.87 | 1.91 | * | 1.91 | 2.87 | 3.82 | 4.78 |
| May | | | | | | | | | |
| 2----- | 0.68 | 0.79 | 0.95 | 1.10 | 1.30 | ---- | ---- | ---- | 0.62 |
| 3----- | HS .71 | HS .82 | HS .96 | HS1.12 | 1.28 | ---- | ---- | ---- | ---- |
| 4----- | .68 | .79 | .92 | 1.11 | 1.34 | ---- | ---- | ---- | ---- |
| 5----- | ---- | ---- | ---- | ---- | ---- | 1.03 | 0.81 | ---- | ---- |
| 6----- | ---- | ---- | HM .82 | HS1.02 | ---- | ---- | ---- | ---- | ---- |
| 7----- | ---- | ---- | ---- | HS1.05 | HS1.16 | ---- | ---- | ---- | ---- |
| 8----- | HS .42 | HS .58 | HS .72 | HS .94 | HS1.22 | ---- | ---- | ---- | ---- |
| 17----- | HS .79 | HS .90 | HS1.10 | HS1.18 | HS1.38 | HS1.12 | HS .97 | HS .81 | HS .69 |
| 18----- | ---- | ---- | ---- | ---- | DS1.29 | HS .06 | HS .94 | HS .76 | HS .66 |
| 19----- | ---- | ---- | ---- | ---- | HS1.21 | HS1.02 | ---- | ---- | ---- |
| 20----- | .45 | .57 | .70 | ---- | ---- | ---- | ---- | ---- | ---- |
| 25----- | ---- | ---- | ---- | ---- | ---- | HS .84 | HS .61 | .47 | .38 |
| 26----- | .67 | ---- | ---- | HS1.13 | HS1.32 | HS .99 | HM .76 | HS .70 | .56 |
| Aver-
ages | 0.63 | 0.74 | 0.88 | 1.07 | 1.28 | 1.01 | 0.82 | 0.69 | 0.58 |

D Dust, including blowing dust (BD)
S Slight
HM Haze moderate
HS Haze slight
* Values corresponding to true solar noon
** May 4- new drive motor
May 15-27 recorder inoperative
May 27 - solar sensor #3009 installed
Note: much lower readings after recorder returned to service

Langley is the unit used to denote one gram calorie per square centimeter. An explanation of the formula used in computing the air mass values for each station listed above appears

in the February 1957 issue, Vol. 8, No. 2 page 63, of this publication

SOLAR RADIATION TOTALS

Daily totals and monthly averages of solar radiation (direct and diffuse) received on a horizontal surface, tabulated in langleys.

MAY 1970

| Station | Day of month | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 31 | Avg. | |
|----------------------|--------------|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|------|------|-----|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | | | | |
| ALBUQUERQUE N.M. | 654 | 812 | 795 | --- | 599 | 632 | 796 | 656 | 797 | --- | 748 | --- | 800 | 818 | 805 | 816 | 802 | 749 | 448 | 459 | 801 | 663 | 826 | 819 | --- | 654 | --- | --- | --- | --- | --- | --- | | |
| AMES IOWA | 179 | 607 | 499 | 614 | --- | --- | --- | 559 | 314 | 523 | 364 | 263 | 261 | 81 | 203 | 579 | 816 | 519 | 437 | 587 | 546 | 572 | 339 | 500 | 596 | 648 | 420 | 419 | --- | --- | --- | --- | | |
| ANNETTE ALASKA | 603 | 544 | 335 | 171 | 532 | 215 | 61 | 507 | 440 | 508 | 597 | 426 | 360 | 266 | 201 | 449 | 636 | 293 | 398 | 324 | 87 | 363 | 476 | 75 | 195 | 521 | 549 | 419 | --- | --- | --- | --- | | |
| APALACHICOLA FLORIDA | 631 | 582 | 534 | 342 | 697 | 669 | 672 | 686 | 614 | 678 | 679 | 674 | 669 | 656 | 650 | 626 | 643 | 589 | 256 | 673 | 703 | 667 | 640 | 437 | 401 | 699 | 664 | 681 | 666 | 445 | 638 | 601 | | |
| ARGONNE NAT. LAB. | 283 | 257 | 657 | 625 | 443 | 702 | 604 | 609 | 341 | 607 | 346 | 383 | 359 | 98 | 135 | 419 | 648 | 696 | 657 | 646 | 618 | 539 | 374 | 525 | 468 | 745 | 591 | 641 | 641 | 641 | 641 | 641 | | |
| ASTORIA OREGON | 552 | 599 | 689 | 206 | 650 | 670 | 488 | 154 | 471 | 437 | 413 | 533 | 688 | 743 | --- | 235 | 491 | 475 | 273 | 231 | 476 | 353 | 763 | --- | --- | 637 | 431 | 295 | --- | --- | --- | --- | | |
| ATLANTA GEORGIA | 469 | 178 | 76 | 607 | 704 | 698 | 700 | 660 | 553 | 588 | 576 | 571 | 594 | 681 | 661 | 473 | 720 | 585 | 649 | 661 | 609 | 554 | 638 | --- | --- | 653 | 711 | 410 | 139 | 139 | 236 | 538 | 483 | |
| BARROW ALASKA | 388 | 516 | 503 | 509 | 407 | 371 | 430 | 379 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | |
| BETHLEHEM ALASKA | 233 | 509 | 217 | 236 | 258 | 475 | 355 | 570 | 535 | 564 | 582 | 641 | 587 | 646 | 630 | 235 | 348 | 356 | 303 | 439 | 445 | 521 | 442 | 602 | 490 | 653 | 551 | 488 | 521 | 510 | 355 | 466 | --- | |
| BETHLEHEM N.DAK. | 751 | 638 | 618 | 709 | 726 | 589 | 636 | 159 | 73 | 158 | 344 | 210 | --- | 215 | 512 | 751 | 756 | 470 | 455 | 507 | 579 | 612 | 202 | 546 | 651 | 676 | 633 | 230 | 758 | 310 | 698 | 506 | --- | |
| BOISE IDAHO | 716 | 718 | 711 | 577 | 568 | 598 | 416 | 406 | 485 | 480 | 583 | 540 | 509 | 745 | 761 | 753 | 734 | 615 | 365 | 387 | 584 | 564 | 451 | --- | --- | 777 | 596 | 366 | 686 | 684 | 791 | 789 | 604 | |
| BROOKINGS SOUTH DAK. | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BROWNSVILLE TEXAS | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BURLINGTON VERMONT | 454 | 106 | 193 | 571 | 502 | 122 | 488 | 245 | 290 | 394 | 339 | 470 | 87 | 617 | 312 | 297 | 783 | 502 | 694 | 713 | 489 | 541 | 665 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | |
| CAPE HATTERAS N.C. | 650 | 401 | 550 | 164 | 617 | 705 | 715 | 663 | 660 | 643 | --- | 586 | 617 | 647 | 283 | 495 | 198 | 649 | 631 | 619 | 727 | 679 | 688 | 336 | 278 | 689 | 677 | 637 | 619 | 580 | 572 | --- | --- | |
| CARIBOU MAINE | 345 | 388 | 127 | 670 | 497 | --- | 218 | 200 | 566 | 150 | 143 | 400 | 106 | 701 | 781 | 483 | 135 | 301 | 182 | 368 | 626 | 86 | 762 | 808 | 363 | 70 | 621 | 633 | 806 | 708 | 147 | 413 | --- | |
| CHARLESTON S.C. | 620 | 575 | 672 | 109 | 720 | 714 | 538 | 699 | 717 | 723 | 695 | 633 | 664 | 664 | 602 | 384 | 323 | 744 | 625 | 715 | 683 | 634 | 637 | 588 | 127 | 493 | 538 | 607 | 353 | 378 | 446 | 568 | --- | |
| CLEVELAND OHIO | 384 | 221 | 469 | 493 | 485 | 709 | 661 | 587 | 572 | 292 | 436 | 379 | 191 | 411 | 554 | 95 | 744 | 723 | 665 | 630 | 576 | 585 | 400 | 324 | 502 | 713 | 538 | 660 | 458 | 679 | 417 | 500 | --- | |
| COLUMBIA MISSOURI | 330 | 712 | 695 | 679 | 510 | 661 | 678 | 640 | 209 | 478 | 435 | 414 | 505 | 150 | 184 | 737 | 714 | 721 | 707 | 711 | 708 | 441 | 598 | 435 | 437 | 686 | 585 | 433 | 402 | 394 | 568 | 531 | --- | |
| DODDGE CITY KANSAS | 751 | 745 | 735 | 748 | 722 | 726 | 697 | 707 | 769 | 710 | 746 | 738 | 630 | 275 | 812 | 731 | 763 | 738 | 727 | 609 | 657 | 698 | 431 | 746 | 610 | 739 | 424 | 170 | 511 | 539 | 139 | 637 | --- | |
| E. LANSING MICHIGAN | 283 | 215 | 705 | 598 | 566 | 734 | 633 | 661 | 577 | 495 | 443 | --- | 107 | 89 | 425 | 364 | 525 | 682 | 704 | 685 | 735 | --- | 244 | 234 | 355 | 605 | 602 | 654 | 738 | 447 | 306 | 497 | --- | |
| EL CENTRO CALIF. NPF | 695 | 685 | 647 | 582 | 576 | 719 | 689 | 679 | 671 | 692 | 708 | 704 | 696 | 696 | 693 | 694 | 662 | 602 | 696 | 729 | 699 | 686 | 685 | 680 | 485 | 659 | 678 | 701 | 706 | 667 | 306 | 497 | --- | |
| EL PASO TEXAS | 794 | 359 | 809 | 791 | 650 | 737 | 773 | 803 | 809 | 819 | 817 | 812 | 840 | 838 | 666 | 808 | 804 | 786 | 617 | 478 | 571 | 576 | 760 | 748 | 427 | 690 | 585 | 498 | 654 | 787 | 793 | 654 | --- | |
| ELY NEVADA | 752 | 757 | 701 | 680 | 700 | 414 | 495 | 610 | 529 | 713 | 614 | 661 | 701 | 781 | 783 | 780 | 731 | 601 | 637 | 459 | 655 | 776 | 568 | 492 | 690 | 585 | 498 | 654 | 787 | 793 | 654 | --- | | |
| EMPLEY NEWPORT R.I. | 549 | 601 | 218 | 227 | 638 | 443 | 680 | 524 | 556 | 599 | 562 | 575 | 329 | 98 | 567 | 522 | 97 | 49 | 352 | 641 | 514 | 469 | 313 | 364 | 185 | 113 | 670 | 730 | 562 | 769 | 719 | 462 | --- | |
| FAIRBANKS ALASKA | 342 | 445 | 392 | 439 | 446 | 456 | 427 | 430 | 490 | 523 | 563 | 595 | 631 | 649 | 510 | 624 | 624 | 516 | 528 | 610 | 473 | 572 | 396 | 639 | 292 | 680 | 690 | 665 | 504 | 580 | 622 | 521 | --- | |
| FLAMING GORGE UTAH | 649 | 750 | 705 | 689 | 634 | 685 | 412 | 273 | 456 | 269 | 710 | 47 | 352 | 704 | 790 | 783 | 626 | 746 | 603 | 566 | 535 | 467 | 715 | 769 | 622 | 425 | 613 | 467 | 714 | 389 | 590 | --- | | |
| FORT WORTH TEXAS | 593 | 715 | 716 | 717 | 724 | 742 | 674 | 385 | 530 | 559 | 316 | 372 | 417 | 418 | 318 | 752 | 734 | 703 | 734 | 617 | 478 | 576 | 736 | 747 | 689 | 687 | 734 | 730 | 735 | 711 | 705 | --- | | |
| FRESNO CALIFORNIA | 698 | 698 | 686 | 589 | 679 | 549 | 697 | 662 | 723 | 751 | 681 | 702 | 725 | 727 | 725 | 731 | 713 | 703 | 734 | 617 | 478 | 576 | 736 | 747 | 689 | 687 | 734 | 730 | 735 | 711 | 705 | --- | | |
| GAINESVILLE FLORIDA | 573 | 499 | 626 | 360 | 746 | 714 | 666 | 623 | 651 | 728 | 587 | 693 | 739 | 688 | 623 | 650 | 345 | 553 | 519 | 752 | 751 | 598 | 624 | 164 | 477 | 652 | --- | --- | --- | --- | --- | --- | | |
| GENEVA NEW YORK | 447 | 40 | 298 | 450 | 390 | 372 | 548 | 251 | 408 | 419 | 510 | 494 | 130 | 437 | 185 | 389 | 176 | 595 | 510 | 630 | 613 | 442 | 146 | 308 | 340 | 552 | 258 | 648 | 631 | 664 | 359 | 408 | --- | |
| GLASGOW MONTANA | 674 | 629 | 602 | 686 | 672 | 559 | 165 | 380 | 185 | 192 | 323 | 168 | 540 | 631 | 651 | 728 | 709 | 576 | 421 | 299 | 352 | 563 | 514 | 527 | 699 | 682 | 695 | 656 | 648 | 284 | 616 | 517 | --- | |
| GRAND JUNCTION COLO. | 492 | 706 | 705 | 692 | 636 | 574 | 529 | 574 | 503 | 600 | 669 | 514 | 688 | 702 | 769 | 771 | 728 | 461 | 635 | 776 | 788 | 682 | 489 | 777 | 791 | 727 | 688 | 680 | 759 | 748 | 665 | --- | | |
| GREAT FALLS MONTANA | 695 | 700 | 685 | 718 | 560 | 588 | 48 | 329 | 343 | 451 | --- | 140 | 520 | 725 | 211 | 775 | 772 | 553 | 410 | 174 | 493 | 659 | 583 | 501 | 760 | 638 | 561 | 719 | 507 | 257 | 759 | 545 | --- | |
| GREENSBORO N.C. | 483 | 429 | 64 | 200 | 594 | 653 | 644 | 625 | 600 | 535 | 422 | 508 | 588 | 562 | 223 | 209 | 360 | 677 | 669 | 647 | 559 | 555 | 603 | 597 | 524 | 441 | 6204 | 614 | 554 | 235 | 370 | 495* | --- | |
| INDIANAPOLIS INDIANA | 223 | 584 | 628 | 511 | 497 | 664 | 509 | 589 | 537 | 374 | 233 | 451 | 277 | 350 | 513 | 283 | 639 | 671 | 643 | 628 | 652 | 605 | 452 | 520 | 489 | 685 | 654 | 608 | 336 | 330 | 148 | 493 | --- | |
| ITHACA NEW YORK | 655 | 119 | 441 | 679 | 535 | 357 | 818 | 377 | 449 | 287 | 416 | 593 | 226 | 330 | 213 | 433 | 330 | 729 | 675 | 843 | 818 | 645 | 143 | 910 | 223 | 482 | 300 | 788 | 603 | 863 | 631 | 522 | --- | |
| LAKE CHARLES LA. | 66 | 124 | 693 | 732 | 722 | --- | 678 | 614 | 574 | 407 | 528 | 631 | 704 | 663 | 616 | 204 | 596 | 598 | 614 | 287 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| LAKELAND FLORIDA | 610 | 600 | 612 | 374 | 653 | 699 | 592 | 665 | 6191 | | | | | | | | | | | | | | | | | | | | | | | | | |

SOLAR RADIATION TOTALS

Station

1970

Day of month

| Station | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | Avg. |
|----------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|
| PAGE ARIZONA | 667 | 735 | 735 | 685 | 568 | 726 | 710 | 665 | 651 | 721 | 734 | 672 | 715 | 749 | 760 | 756 | 718 | 714 | 684 | 700 | 747 | 747 | 681 | 517 | 731 | 648 | 733 | 657 | 746 | 740 | 772 | 703 |
| PHOENIX ARIZONA | 791 | 806 | 735 | 760 | 532 | 801 | 797 | 780 | 788 | 788 | 798 | 793 | 805 | 802 | 797 | 778 | 779 | 722 | 745 | 823 | 829 | 824 | 817 | 817 | 808 | 611 | 815 | 827 | 831 | 843 | 824 | 783 |
| PORTLAND MAINE | 491 | 425 | 103 | 450 | 629 | 290 | 410 | 622 | 570 | 536 | 552 | 543 | 294 | 518 | 618 | 310 | 72 | 171 | 482 | 637 | 704 | 475 | 588 | 639 | 162 | 195 | 641 | 729 | 757 | 744 | 702 | 486 |
| RAPID CITY S.DAK. | 496 | 534 | 654 | 526 | 633 | 473 | 537 | 94 | 313 | 428 | 662 | 556 | 264 | 286 | 698 | 691 | 689 | 655 | 537 | 663 | 307 | 284 | 607 | 352 | 721 | 540 | 258 | 389 | 669 | 513 | 243 | 491 |
| RENO NEVADA | 655 | 645 | 638 | 558 | 610 | 234 | 580 | 330 | 558 | 675 | 622 | 444 | 632 | 678 | 677 | 656 | 624 | 391 | 388 | 568 | 669 | 555 | 683 | 677 | 671 | 647 | 511 | 674 | 666 | 659 | 686 | 589 |
| RICHLAND 25 NW WASH. | 669 | 661 | -- | 490 | 646 | 462 | 668 | 320 | 628 | 497 | 667 | 481 | 740 | 686 | 721 | 710 | 724 | 741 | 654 | 709 | 694 | 447 | 728 | 716 | 698 | 706 | 722 | 583 | 395 | 735 | 734 | 634 |
| RIVERSIDE CALIFORNIA | 759 | 787 | 676 | 720 | 724 | 543 | 653 | 694 | 633 | 532 | 734 | 743 | 746 | 782 | 788 | 776 | 770 | 758 | 746 | 650 | 672 | 705 | 626 | 567 | 549 | 208 | 259 | 257 | 669 | 728 | 659 | 649 |
| RUSTON LOUISIANA | 52 | 643 | 568 | 654 | 607 | 585 | 548 | 647 | 342 | 432 | 575 | 598 | 562 | 624 | 518 | 471 | 681 | 672 | 637 | 611 | 434 | 609 | 495 | 539 | 455 | 528 | 195 | 526 | 515 | 587 | 421 | 527 |
| SAINT CLOUD MINN. | 216 | 617 | 541 | 632 | 662 | 631 | 395 | 480 | 115 | 351 | 199 | 388 | 474 | 80 | 186 | 513 | 659 | 631 | 417 | 456 | 290 | 356 | 135 | 352 | 467 | 670 | 235 | 260 | 147 | 367 | 295 | 394 |
| SALT LAKE CITY | 779 | 772 | 742 | 710 | 605 | 638 | 278 | 781 | 492 | 202 | 592 | 666 | 595 | 797 | 795 | 781 | 797 | 717 | 532 | 448 | 657 | 792 | 393 | 773 | 787 | 805 | 535 | 778 | 721 | 743 | 826 | 663 |
| SAN ANTONIO TEXAS | 510 | 308 | 741 | 733 | 731 | 718 | 557 | 506 | 358 | 495 | 406 | 359 | 460 | 666 | 181 | 770 | 745 | 735 | 592 | 570 | 472 | 273 | 328 | 447 | 449 | 193 | 606 | 617 | 260 | 533 | 645 | 515 |
| SANTA MARIA CALIF. | 701 | 710 | 578 | 578 | 567 | 593 | 713 | 709 | 689 | 733 | 739 | 731 | 713 | 729 | 740 | 728 | 739 | 663 | 699 | 755 | 709 | 721 | 609 | 440 | 410 | 340 | 403 | 688 | 688 | 736 | 665 | 652 |
| SALT STE MARIE MICH | 256 | 349 | 298 | -- | 510 | 714 | 468 | 322 | 124 | 61 | 381 | 138 | 516 | 277 | 65 | 227 | 689 | 450 | 714 | 252 | 436 | 243 | 700 | 359 | 94 | 257 | 766 | 542 | 645 | 77 | 46 | 372 |
| SEATTLE TACOMA WASH. | 568 | 669 | 662 | 503 | 395 | 323 | 573 | 204 | 625 | 545 | 649 | 470 | 715 | 534 | 712 | 630 | 651 | 724 | 455 | 295 | 471 | 409 | 628 | 734 | 650 | 487 | 286 | 285 | 137 | 609 | 740 | 527 |
| SPOKANE WASHINGTON | 640 | 641 | 652 | 526 | 624 | 361 | 529 | 270 | 493 | 397 | 485 | 263 | 521 | 578 | 666 | 683 | 707 | 685 | 704 | 507 | 648 | 381 | 682 | 704 | 686 | 609 | 645 | 531 | 262 | 475 | 697 | 560 |
| STERLING VIRGINIA | 555 | 509 | 291 | 149 | 578 | 570 | 674 | 383 | 598 | 587 | 528 | 437 | 483 | 473 | 257 | 202 | 242 | 686 | 626 | 594 | 616 | 592 | 576 | 516 | 208 | 415 | 666 | 614 | 631 | 665 | 599 | 501 |
| SWAN ISLAND W.I. | 533 | 537 | 606 | 554 | 578 | 589 | 610 | 497 | 403 | 593 | 585 | 574 | 590 | 587 | 518 | 464 | 220 | 83 | 226 | 341 | 628 | 602 | 604 | 588 | 546 | 480 | 555 | 615 | 608 | 557 | 574 | 518 |
| TAMPA FLORIDA | 495 | 414 | 631 | 445 | 692 | 691 | 637 | 652 | 604 | 586 | 571 | 595 | 644 | 619 | 633 | 606 | 617 | 560 | 562 | 686 | 686 | 607 | 543 | 658 | 660 | 862 | 862 | 424 | 298 | 348 | 695 | 566 |
| TUCSON ARIZONA | 684 | 678 | 590 | 656 | 619 | 683 | 692 | 676 | 680 | 685 | 687 | 692 | 691 | 695 | 648 | 672 | 684 | 637 | 567 | 674 | 685 | 690 | 696 | 658 | 517 | 596 | 670 | 702 | 703 | 704 | 694 | 658 |
| WAKE ISLAND PACIFIC | 624 | 636 | 623 | 652 | 621 | 421 | 509 | 658 | 662 | 513 | 641 | 451 | 190 | 71 | 493 | 582 | 517 | 674 | 671 | 670 | 673 | 658 | 661 | 674 | 602 | 604 | 595 | 595 | 647 | 559 | 612 | 575 |

Note.--Langley is the unit used to denote one gram calorie per square centimeter.

Values with an asterisk are interpolated.

NET RADIATION

Net radiation in langleya per day (8 a.m. to 8 a.m.) at Palmer, Alaska

MAY 1970

| Date | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | Avg. |
|----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|
| Langleya | 171 | 195 | 142 | 200 | 116 | 138 | 233 | 192 | 231 | 239 | 235 | 254 | 187 | 83 | 204 | 215 | 234 | 260 | 261 | 272 | 206 | 129 | 231 | 216 | 294 | 288 | 264 | 228 | 200 | 297 | 253 | 213 |

The measurement is made with a CSIRO FUNK net exchange radiometer over a plot of snow. The value represents the total incoming minus the total outgoing radiation of all wave lengths.

These data are of an experimental nature and are published as received from the Palmer Exp. Station. The instrument with which they were measured has not been checked by ESSA, Weather Bureau.

SOLAR ULTRA-VIOLET RADIATION DATA

Daily totals, and monthly average (3000 A) Ames, Iowa

| Date | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | Avg. |
|----------|------|-------|-------|-------|-------|-------|-------|-------|------|-------|-------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| Langleya | 8.16 | 20.36 | 16.69 | 20.46 | 20.24 | 19.89 | 18.94 | 18.11 | 8.76 | 17.04 | 12.96 | 9.47 | 8.16 | 3.90 | 8.05 | 20.00 | 20.36 | 15.27 | 14.56 | 18.58 | 17.76 | 18.11 | 12.19 | 17.52 | 19.65 | 22.25 | 13.85 | 11.56 | 12.56 | 14.36 | 9.58 | 15.23 |

These data are from an ultra-violet sensor and Spectromax II (Leeds Northrup) Recorder. It is at the same location (Astronomy Building, Iowa State University, Ames) as the published total solar radiation instrument data set. This instrument has not been checked by the ESSA, Weather Bureau.

TOTAL OZONE DATA

These provisional ozone data are obtained from measurements made with a Dobson ozone spectrophotometer, and are applicable approximately to local apparent noon. The data are presented in the code . S . 2 . 2 . 2 defined in the August 1962 WMO circular entitled "PUBLICATION OF DATA FOR METEOROLOGICAL RESEARCH, WORLD OZONE DATA."

Units: Milli-atmos.

| Station | Day of month | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Mean | Op | |
|----------------------|--------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----|-----|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | | | |
| Bethel, Me. | 00335 | --- | --- | 05349 | 00380 | 00407 | 00496 | 05418 | --- | --- | 00366 | --- | 05331 | 06343 | 00348 | --- | --- | --- | 00445 | 00362 | 00362 | 00348 | --- | --- | --- | 05424 | 05387 | 00388 | 00370 | --- | --- | --- | 381 | |
| Bismarck, N. D. | 00429 | 00379 | 00369 | 00366 | 00374 | 00384 | 04429 | --- | --- | 05422 | 05367 | 05373 | 05378 | --- | 05397 | 00378 | 00360 | 00345 | 00336 | 05325 | 00344 | 00354 | --- | --- | 00384 | 00390 | 00357 | 00352 | 35.46 | 00371 | 05402 | 06405 | 324 | |
| Boulder, Colo. | 00449 | --- | --- | 00442 | 05371 | --- | --- | 00395 | 00414 | --- | --- | 00352 | 00356 | 00385 | 05424 | 00380 | --- | 00358 | 04385 | 00366 | 00356 | 04367 | --- | --- | --- | 00368 | 00373 | 00376 | 00384 | --- | --- | --- | 378 | |
| Canby, Wyo. | 04440 | 04316 | --- | 00411 | 05381 | --- | 05410 | --- | 02427 | 05440 | 05437 | 35377 | --- | 00373 | 00379 | 05348 | --- | 05360 | --- | 05477 | 00375 | --- | 02397 | 00426 | 05397 | --- | 05409 | 05311 | 06418 | 00367 | 05312 | --- | 390 | |
| Fairbanks, Alaska | 05485 | 05415 | 00438 | 04324 | 05381 | 05381 | 05486 | 06492 | 00450 | 00483 | 00452 | 00434 | 00450 | 00503 | 00467 | 00440 | 06438 | 00370 | 00382 | 00442 | 00402 | 00440 | 05421 | 00411 | 05395 | 00414 | 00409 | 00312 | 00360 | 00411 | 00420 | 441 | | |
| Green Bay, Wisc. | 00373 | 04428 | 00407 | 00391 | 00411 | 00421 | 00403 | 00393 | 00387 | 00426 | 05462 | 04351 | 05330 | 05417 | --- | 04404 | 00378 | 00367 | 00457 | 00450 | 00345 | --- | 04341 | 07364 | 05346 | 04431 | 05368 | --- | --- | --- | --- | --- | 582 | |
| Hanover, N.H. | 00291 | 00259 | 00258 | 00259 | 00258 | 00258 | 00290 | 00253 | 00255 | 00256 | 00258 | 00256 | 00257 | 05263 | 00255 | 00253 | 00260 | 00260 | 00262 | 00263 | 00269 | 00262 | 00258 | 00258 | 00258 | 00258 | 00258 | 00258 | 00257 | 00257 | 00257 | 00257 | 258 | |
| Mauna Loa, Hawaii | 00296 | --- | --- | 00281 | --- | --- | 00291 | --- | --- | --- | --- | 00305 | --- | 00306 | --- | 00307 | --- | --- | 00311 | --- | 00313 | 00297 | --- | --- | --- | 00306 | --- | 00327 | --- | --- | --- | --- | --- | 264 |
| Wallops I. Land, Va. | 00327 | 00436 | 05312 | --- | 00305 | --- | 00411 | 00393 | 00368 | 00337 | --- | 00329 | --- | 00326 | 05348 | --- | --- | --- | 00338 | 00361 | 00371 | --- | --- | --- | 00375 | 00347 | --- | 00402 | 00440 | 00440 | 00443 | 00442 | 388 | |

These data are the total amount of ozone in the atmosphere, i.e., the amount contained in a vertical column extending from the ground level to the top of the atmosphere in the vicinity of the station. The units are in Milli-atmos. (10⁻³ atm). The values are expressed in terms of a 1000 m column of air at standard temperature and pressure. The values are rounded to the nearest 0.1 unit. The values are presented in the code . S . 2 . 2 . 2 defined in the August 1962 WMO circular entitled "PUBLICATION OF DATA FOR METEOROLOGICAL RESEARCH, WORLD OZONE DATA."

Chart 1. A. Normal Daily Average Temperature ($^{\circ}\text{F}$. 1931-60), May.



B. Temperature Departure from 30 - Year Mean ($^{\circ}\text{F}$ 1931-60), May 1970.

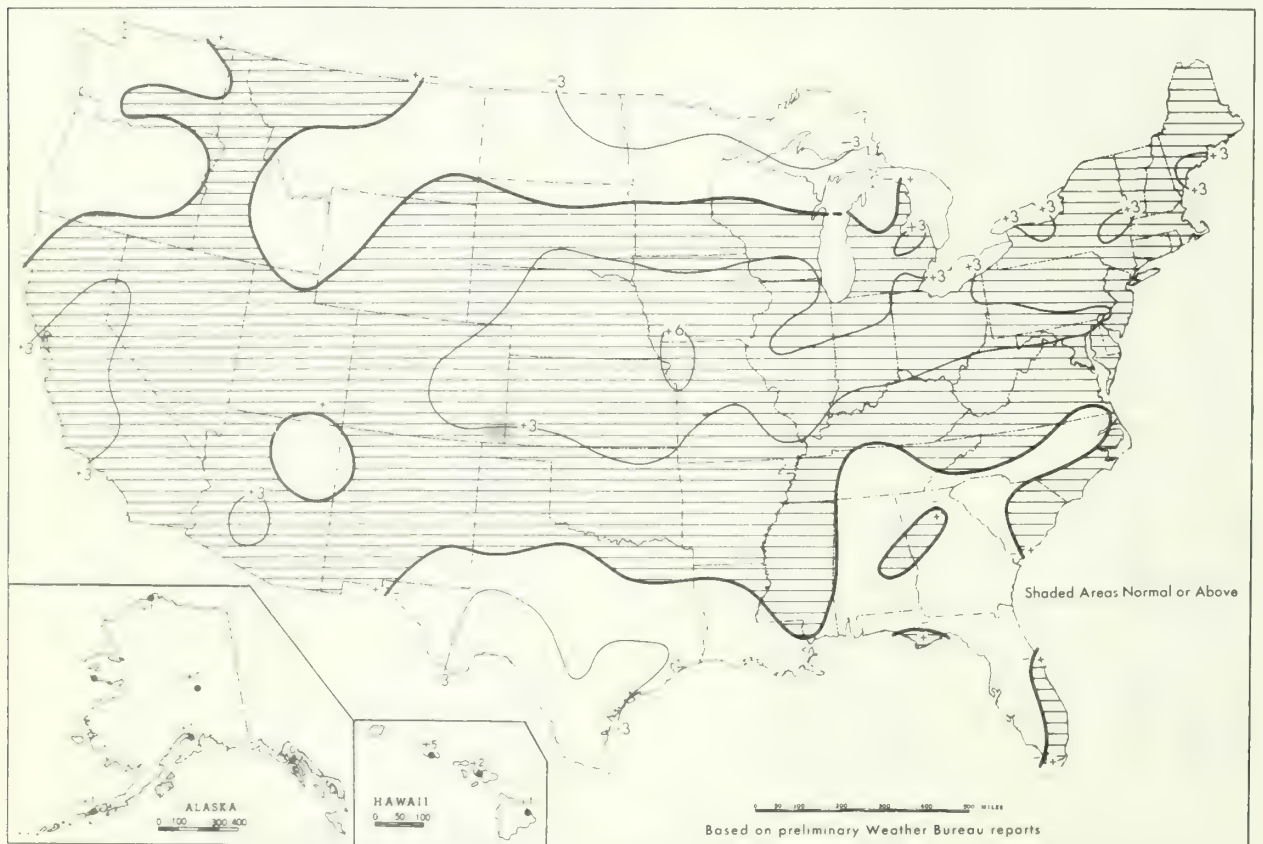


Chart II. Total Precipitation (Inches), May 1970.

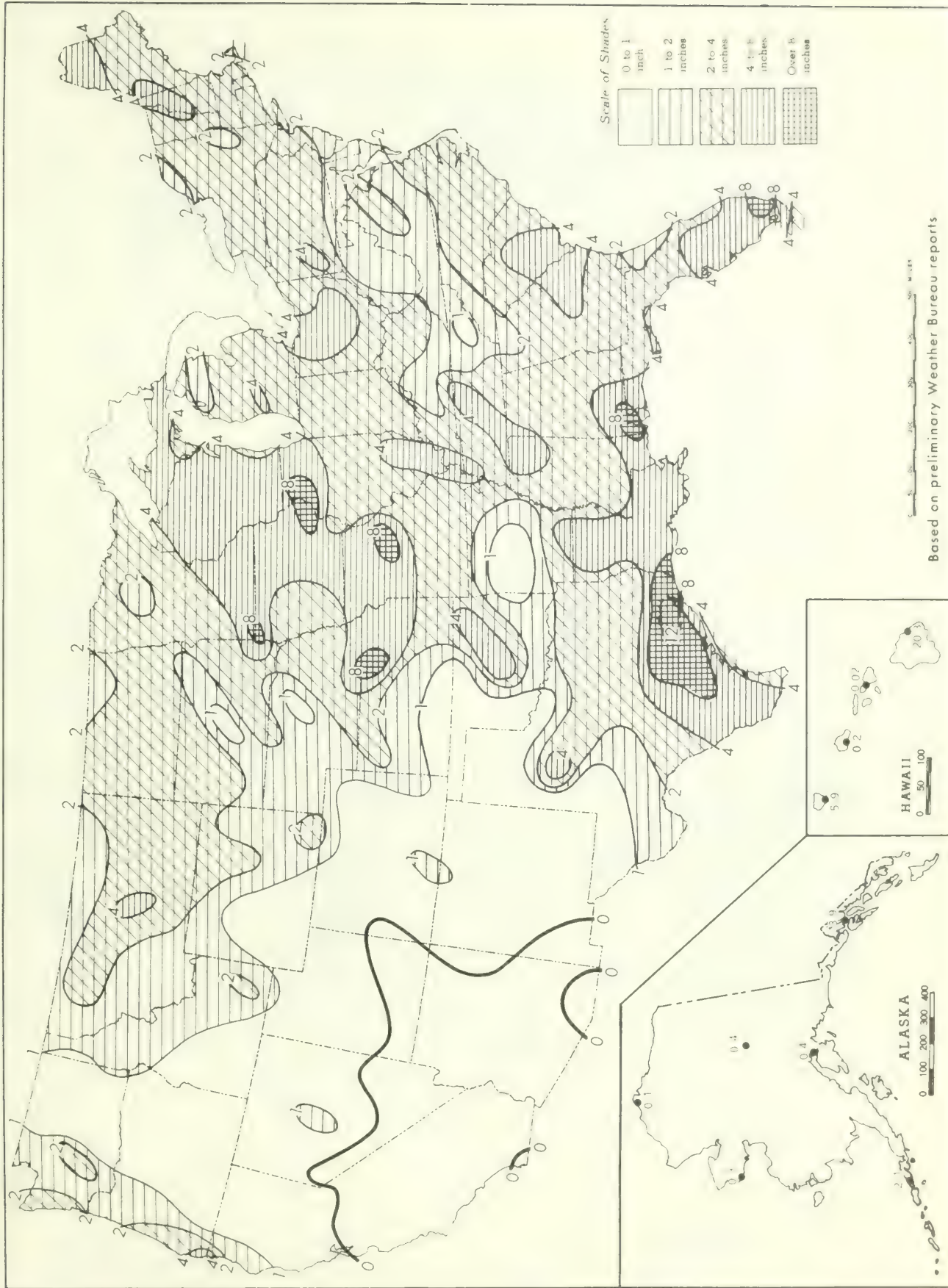


Chart III. Percentage of Normal Precipitation, May 1970.

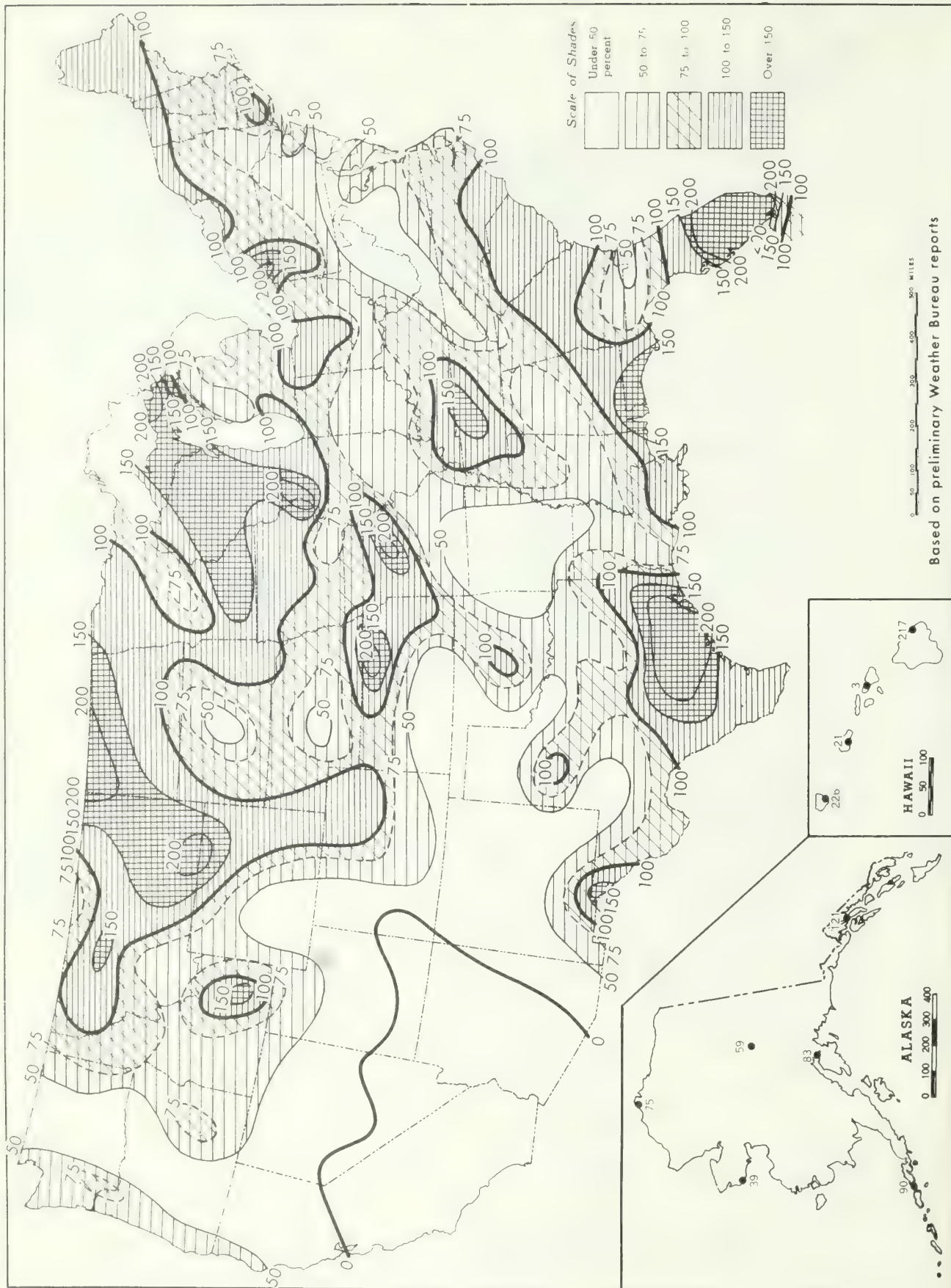
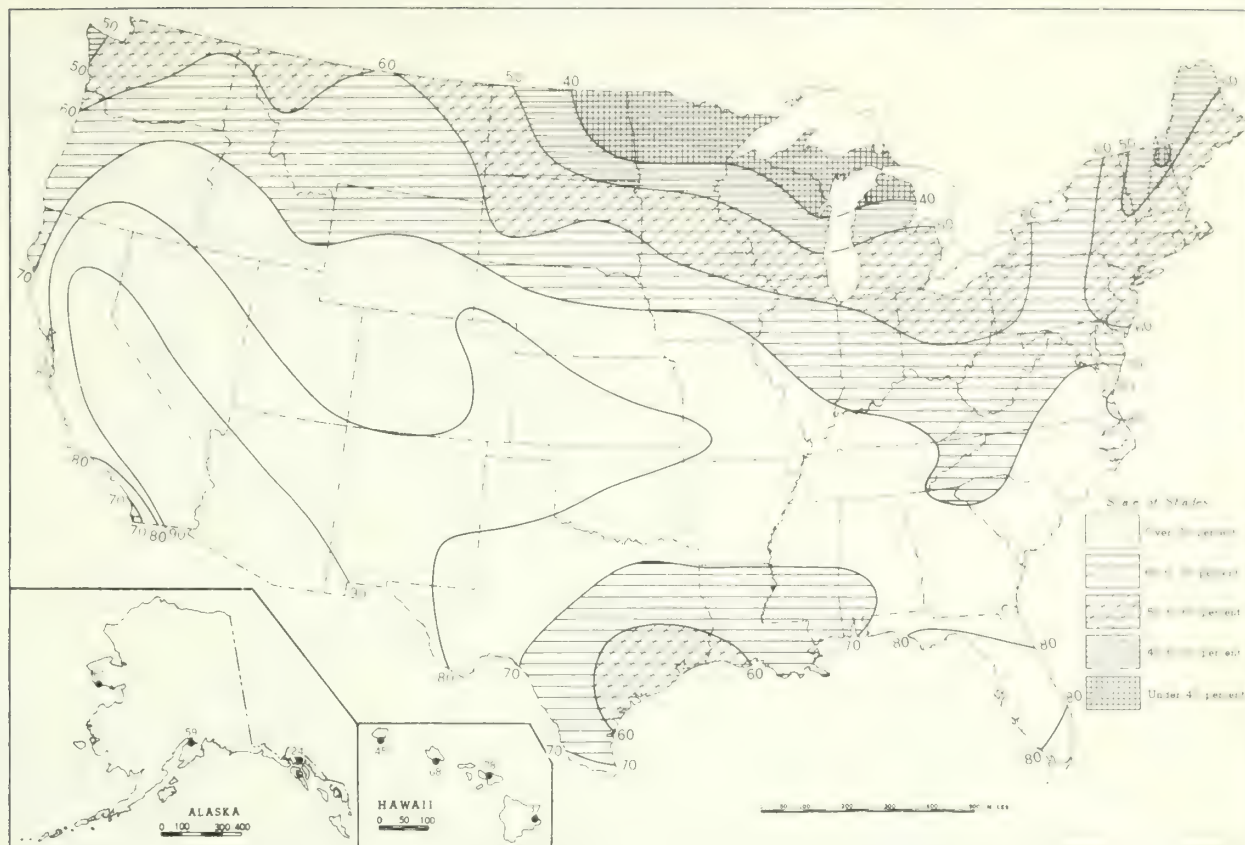


Chart VI. A. Percentage of Possible Sunshine, May 1970.

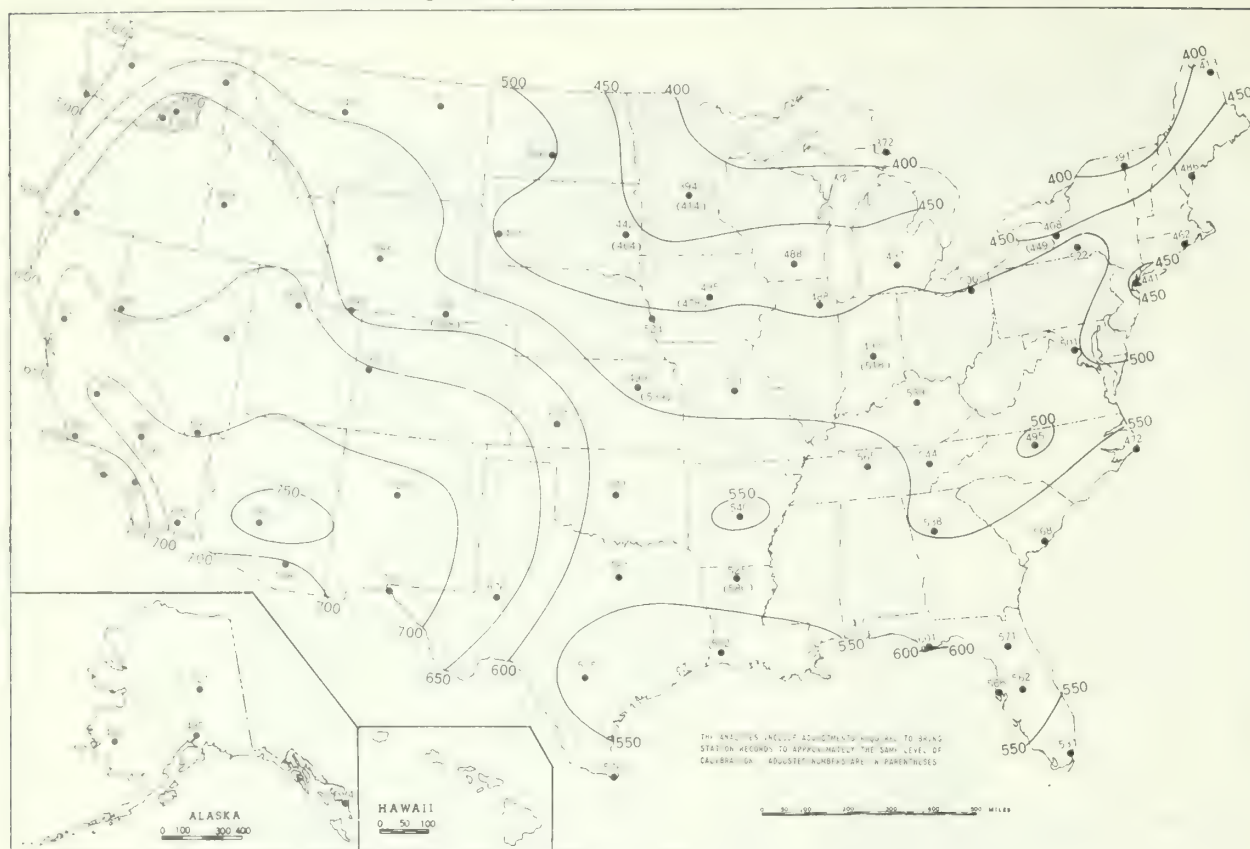


B. Percentage of Mean Monthly Sunshine, May 1970.

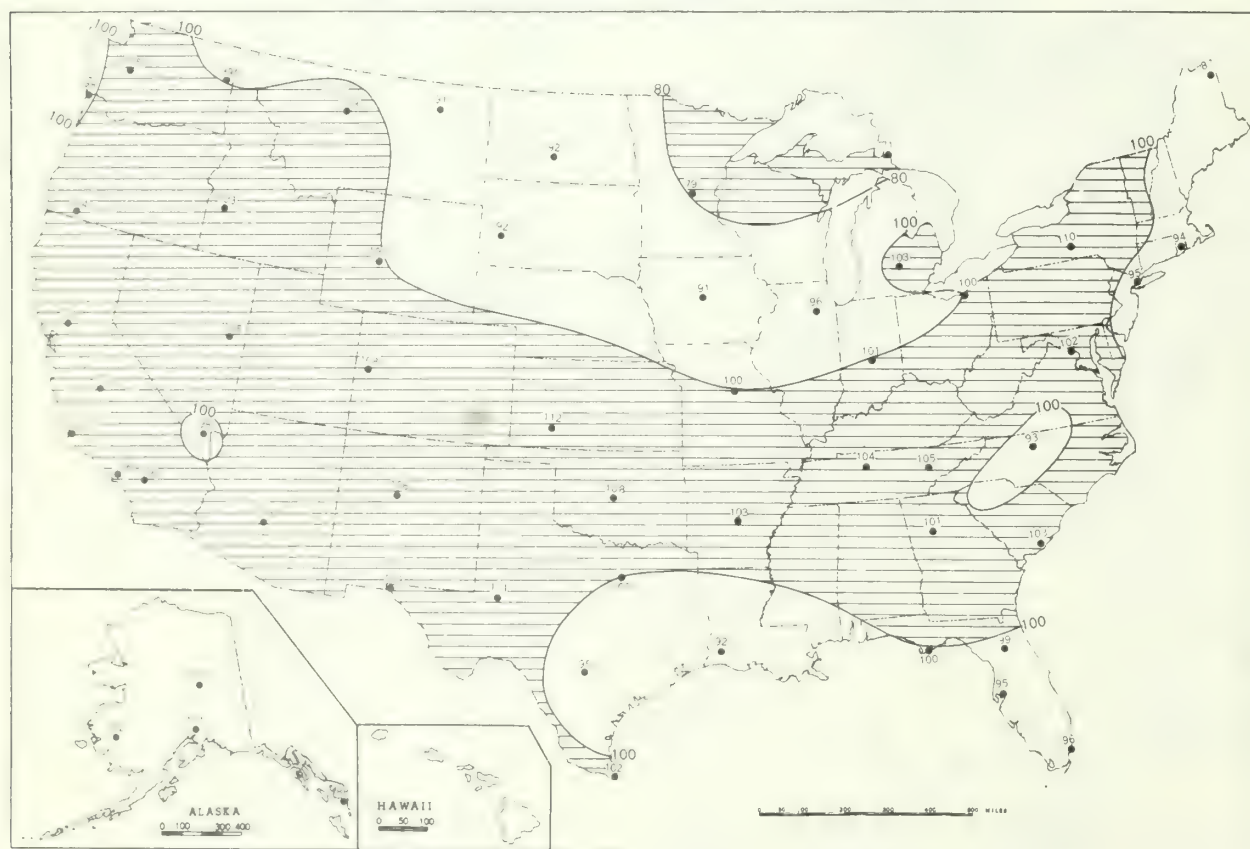


A. Computed from total number of hours of observed sunshine in relation to total number of possible hours of sunshine during month. B. Means are computed for stations having at least 10 years of record.

Chart VII. A. Average Daily Values of Solar Radiation, Langleys, May 1970.



B. Percentage of Mean Daily Solar Radiation, May 1970.



A. Mean daily solar radiation, direct + diffuse, received on a horizontal surface in langleys (1 langley = 1 gm. cal. cm.⁻²) and recorded in International Pyrheliometer Scale of 1956. B. Percentage of the mean based on at least 5 years of record during the period 1950-60, and corrected to the International Pyrheliometer Scale of 1956.

Chart VIII. Tracks of Centers of Anticyclones at Sea Level, May 1970.

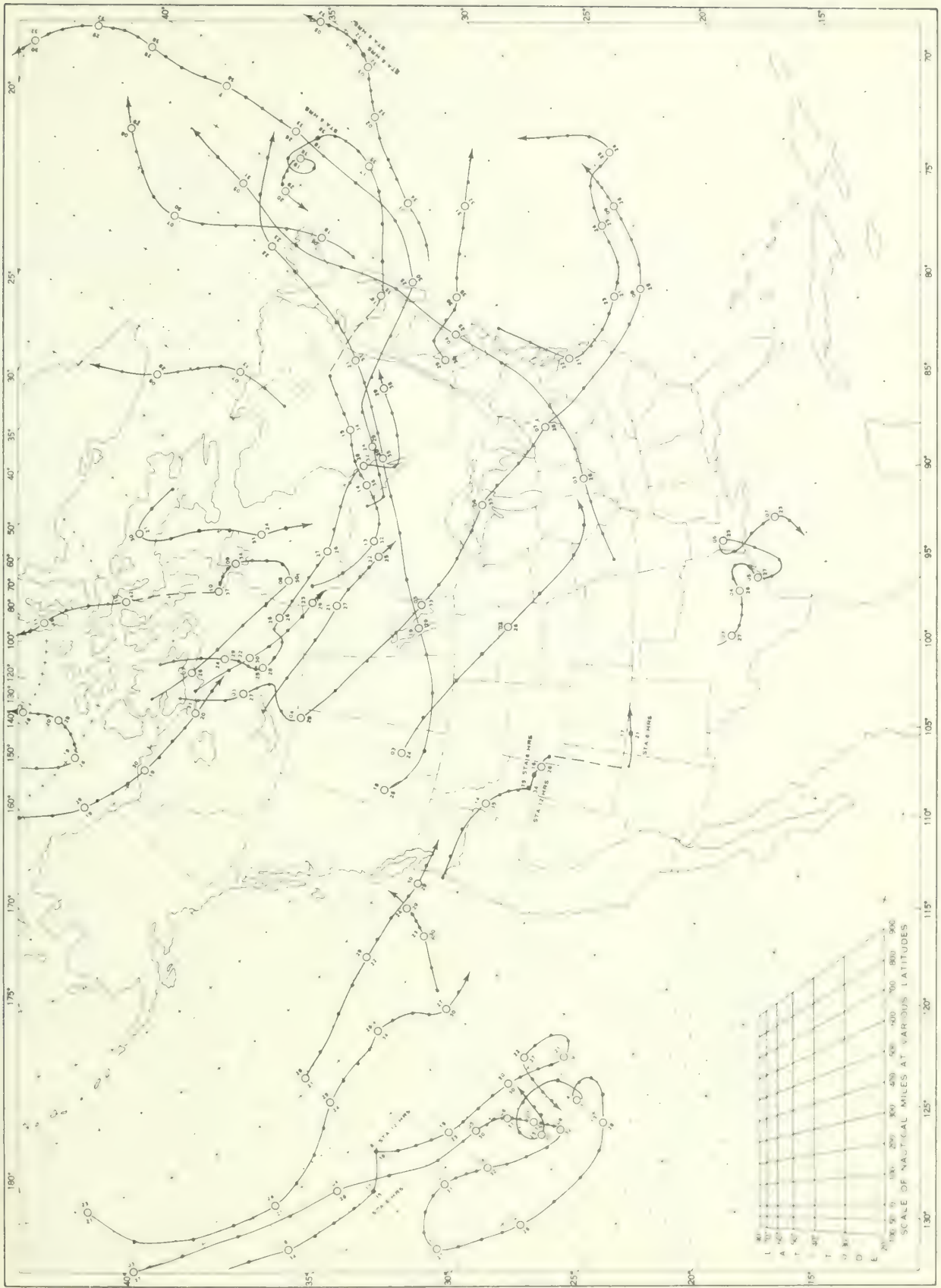
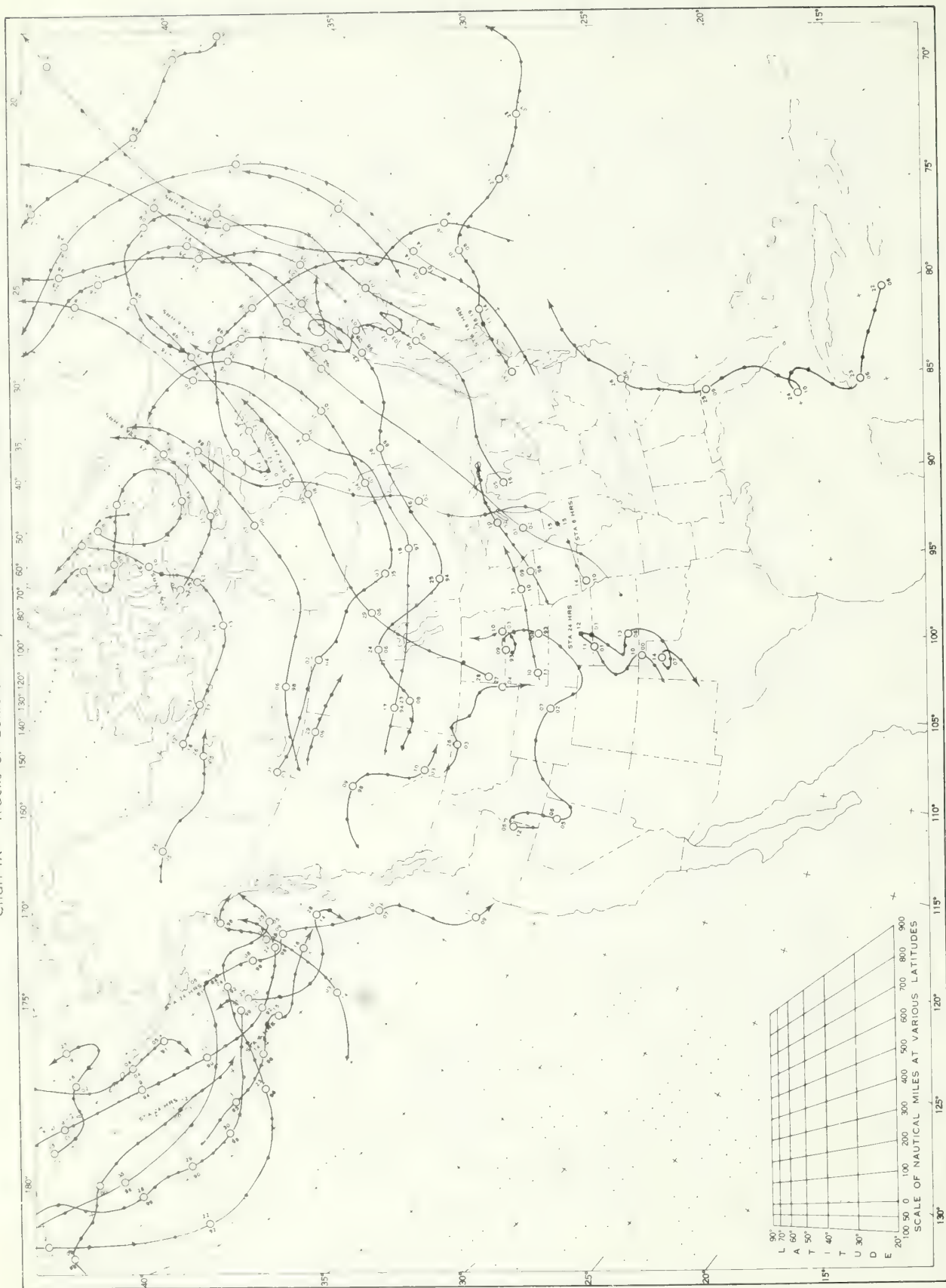
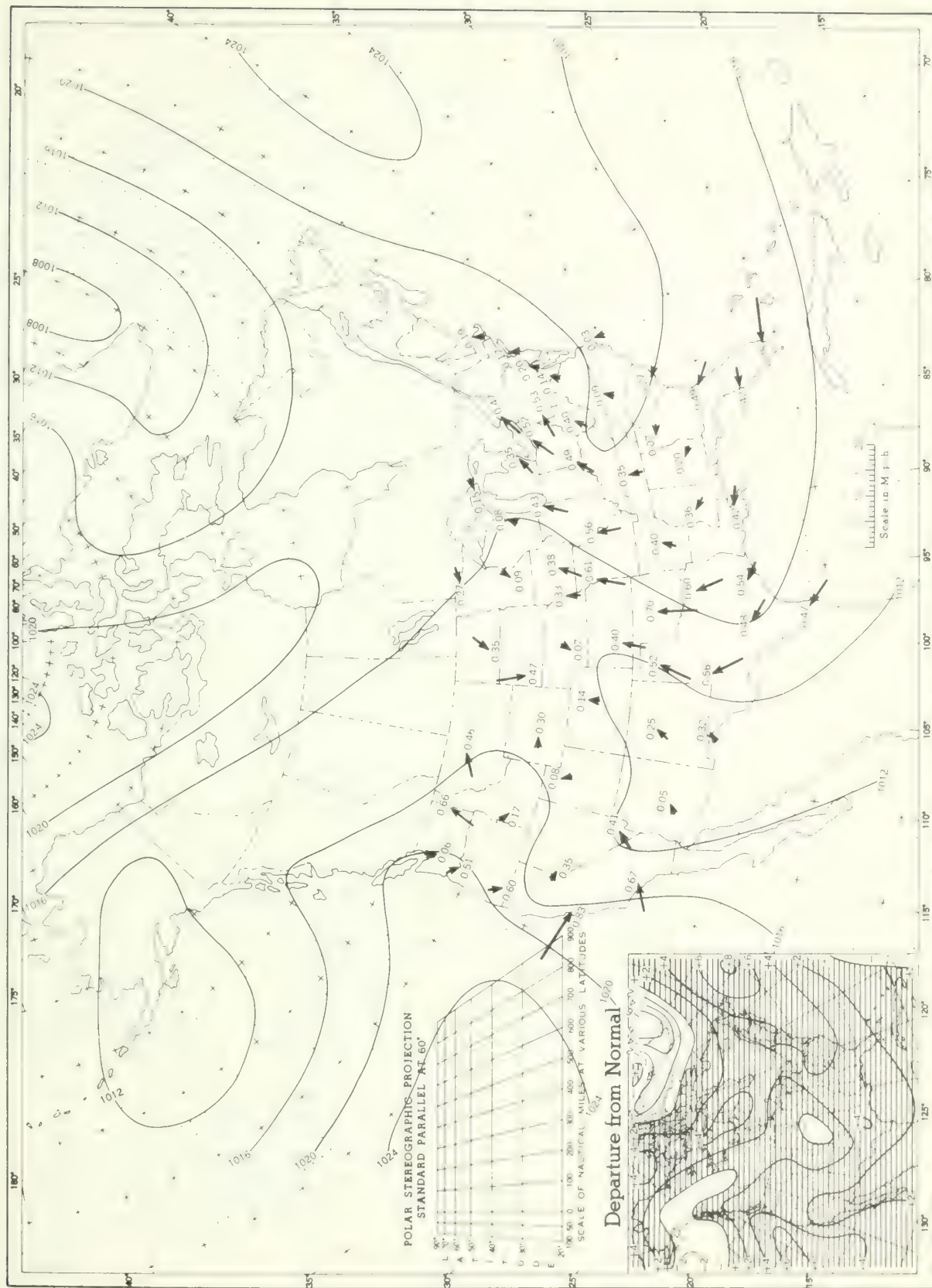


Chart IX Tracks of Centers of Cyclones at Sea Level, May 1970.



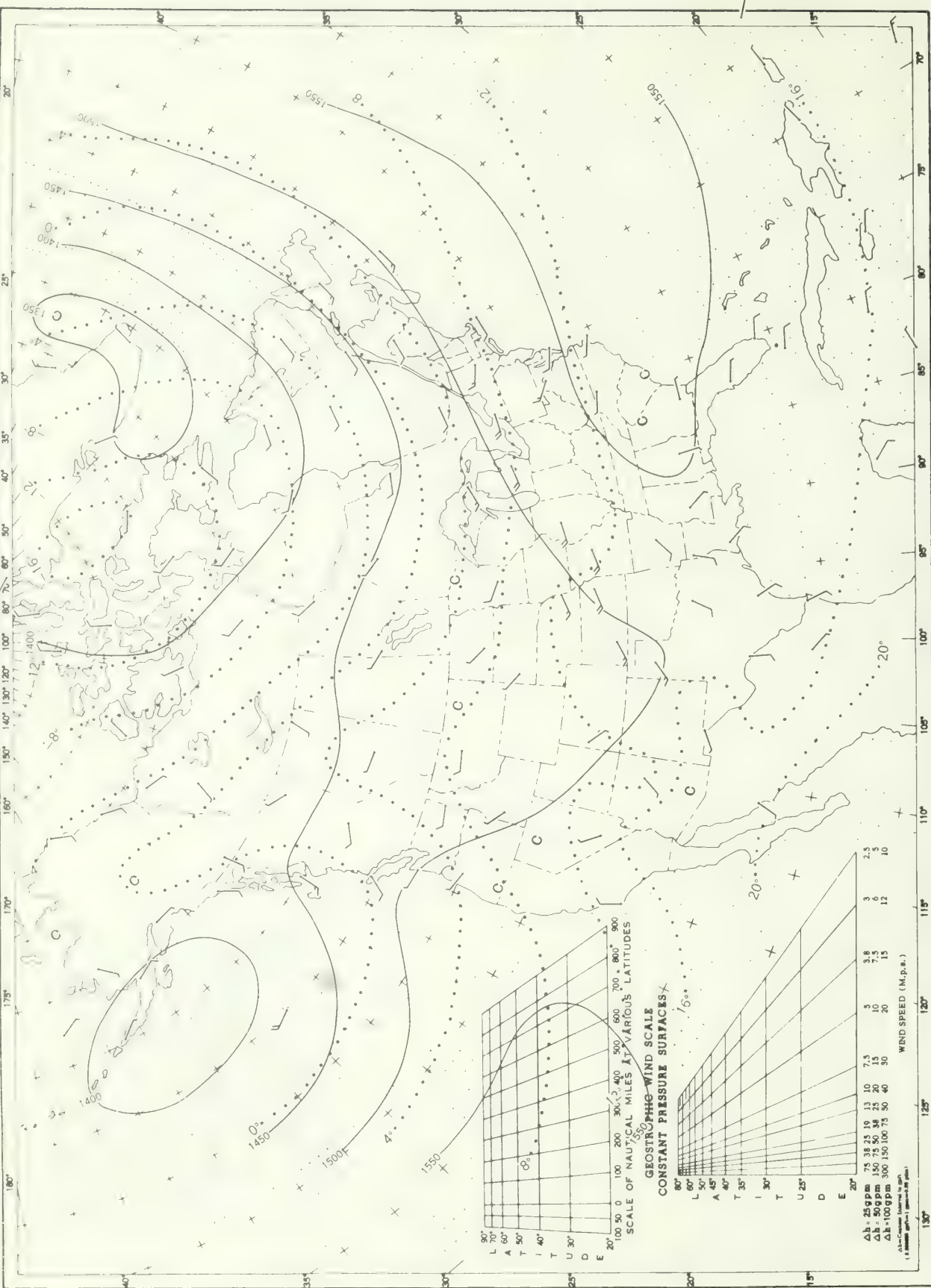
Circle indicates position of center at 7:00 a.m. E.S.T. Figure above circle indicates date, figure below, pressure to nearest millibar.
 Dots indicate intervening 6-hourly positions. Squares indicate position of stationary center for period shown. Dashed line in track indicates reformation at new position. Only those centers which could be identified for 24 hours or more are included.

Chart X. Average Sea Level Pressure (mb) and Resultant Surface Wind, May 1970. Inset: Departure of Average Pressure (mb) from Normal, May 1970.



Average sea level pressures are obtained from eight daily 3 hourly observations. Resultant wind directions and speeds are shown by arrows. Contour lines (resultant speed-average speed) are shown to two decimal places. Pressure normals are computed for stations having at least 10 years of record and for 10° intersections in a diamond grid over the oceans.

Chart XI 350-mb Surface, 1200 GMT, May 1970. Average Height and Temperature, and Resultant Winds



Height in geopotential meters (1 g. p. m. = 0.98 dynamic meters). Temperature in °C. Wind speed in meters per second; flag represents 25 mps, full feather 5 mps, and half feather 2.5 mps. All wind data are based on rawin observations.

Chart XII. 700-mb Surface, 1200 GMT, May 1970. Average Height and Temperature, and Resultant Winds.

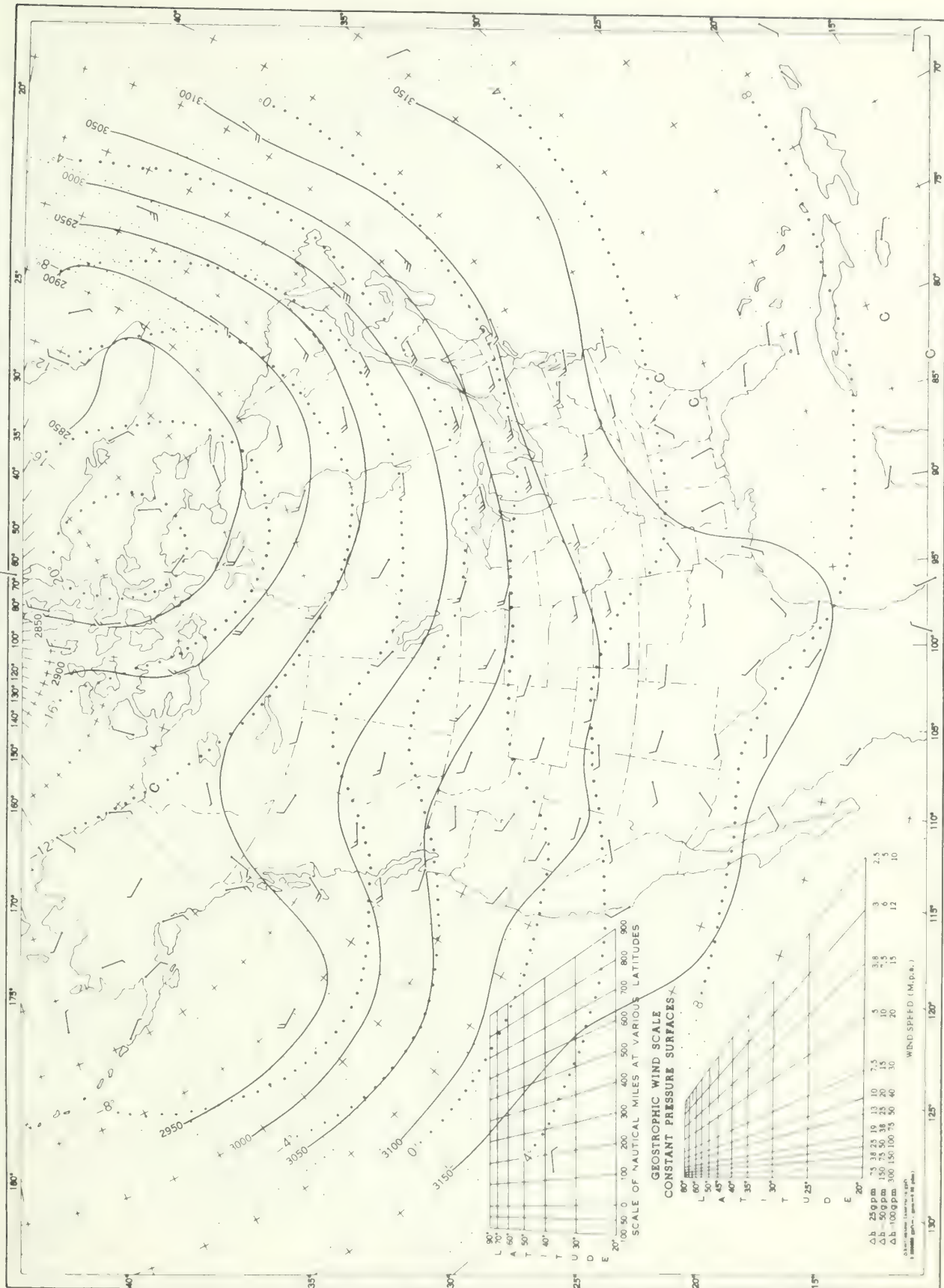
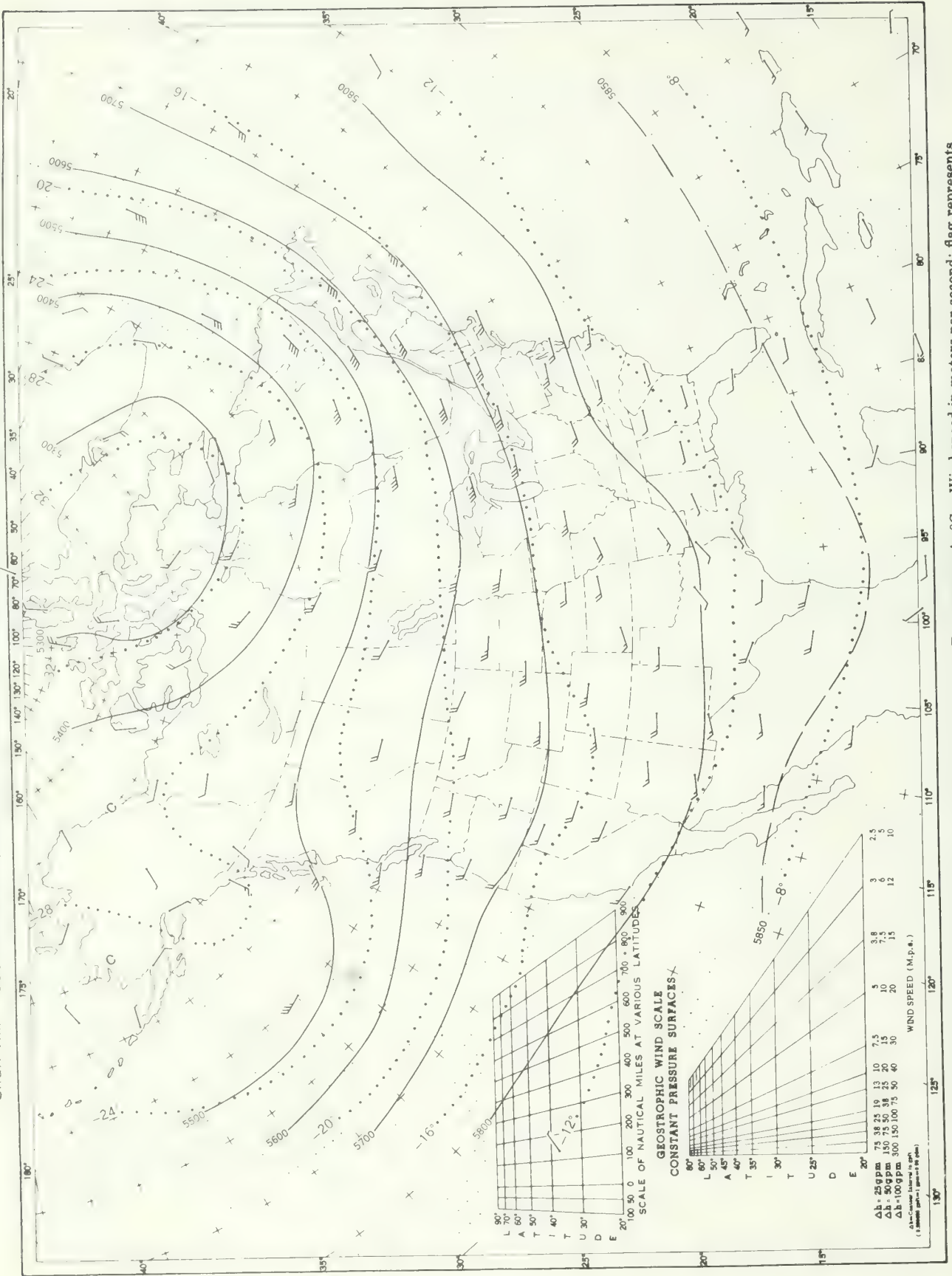


Chart XIII 500-mb Surface, 1200 GMT, May 1970: Average Height and Temperature, and Resultant Winds



Height in geopotential meters (1 g.p.m. = 0.98 dynamic meters). Temperature in °C. Wind speed in meters per second; flag represents 25 mps, full feather 5 mps, and half feather 2.5 mps. All wind data are based on rawin observations.

Chart XIV. 300-mb. Surface, 1200 GMT, May 1970. Average Height and Temperature, and Resultant Winds

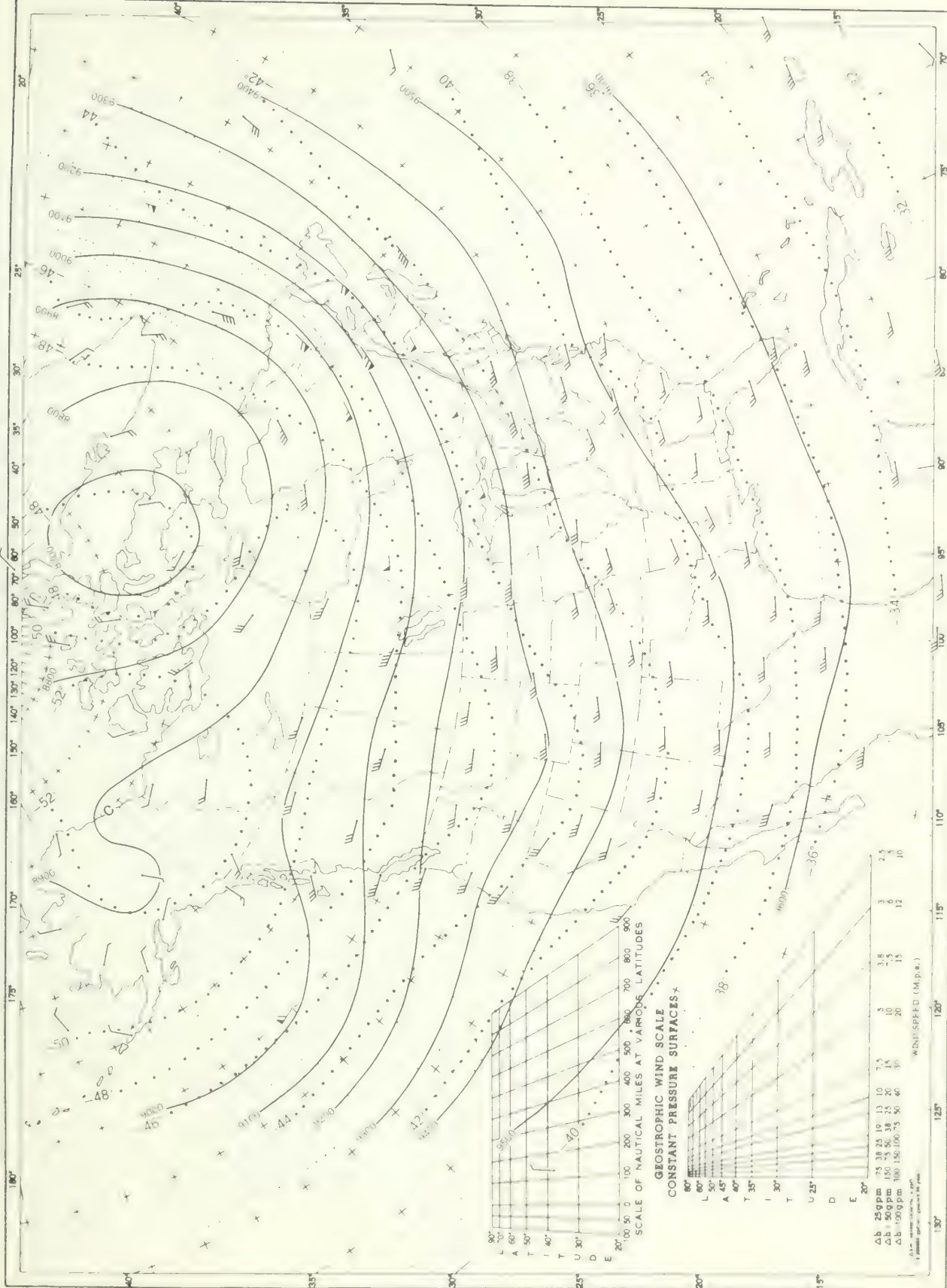


Chart XV 200-mb Surface, 1200 GMT, May 1970 Average Height and Temperature, and Resultant Winds

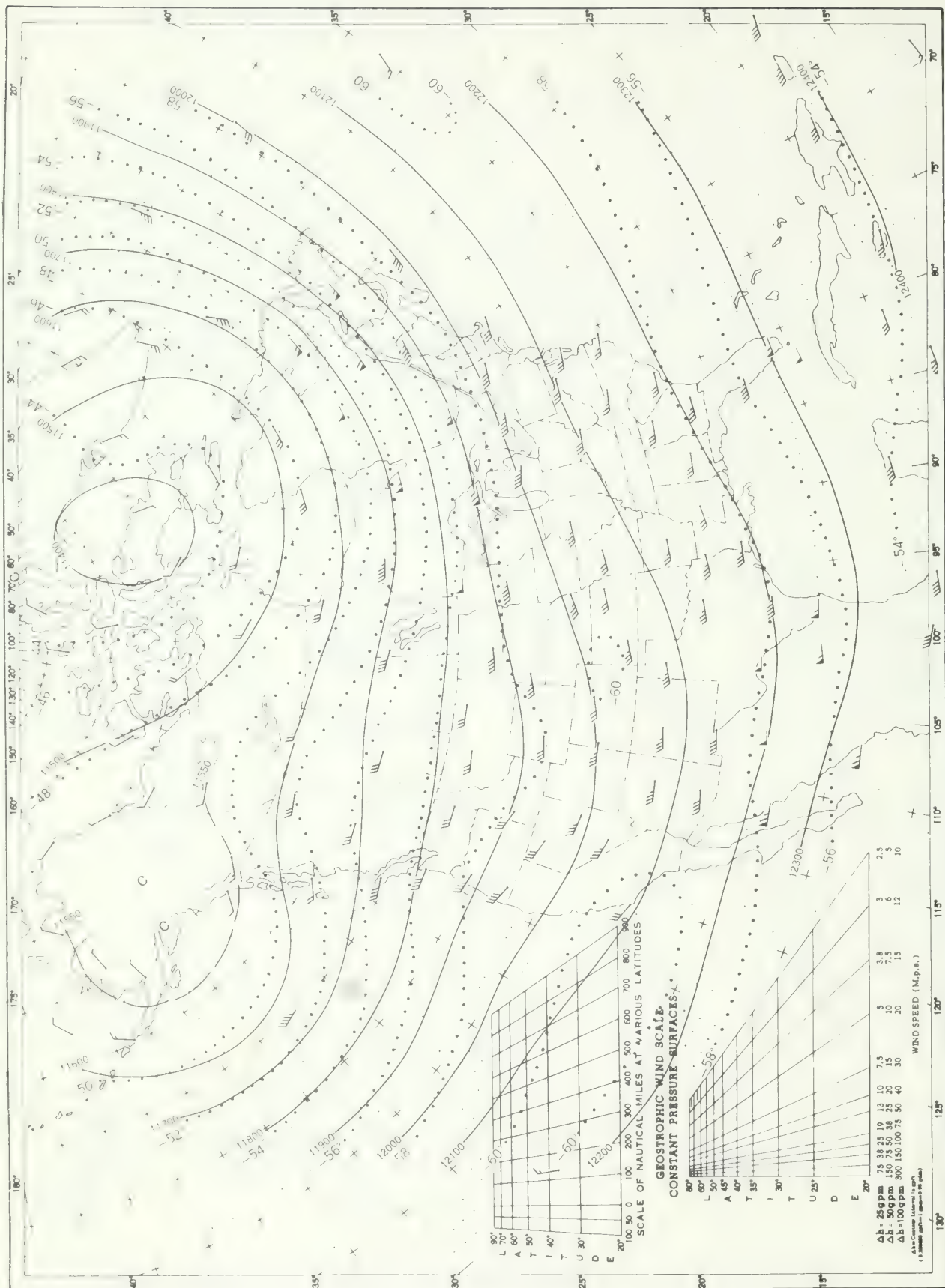
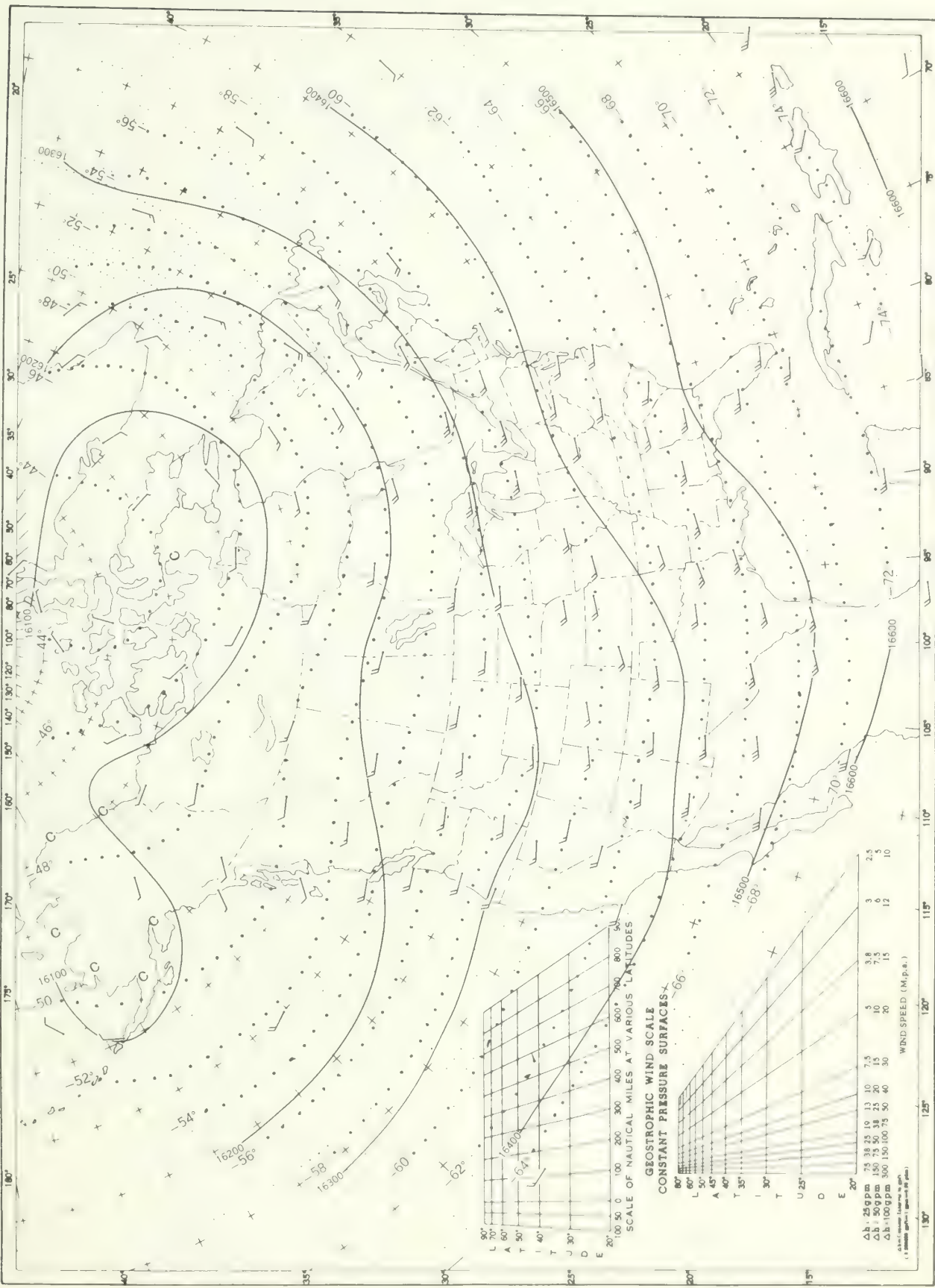
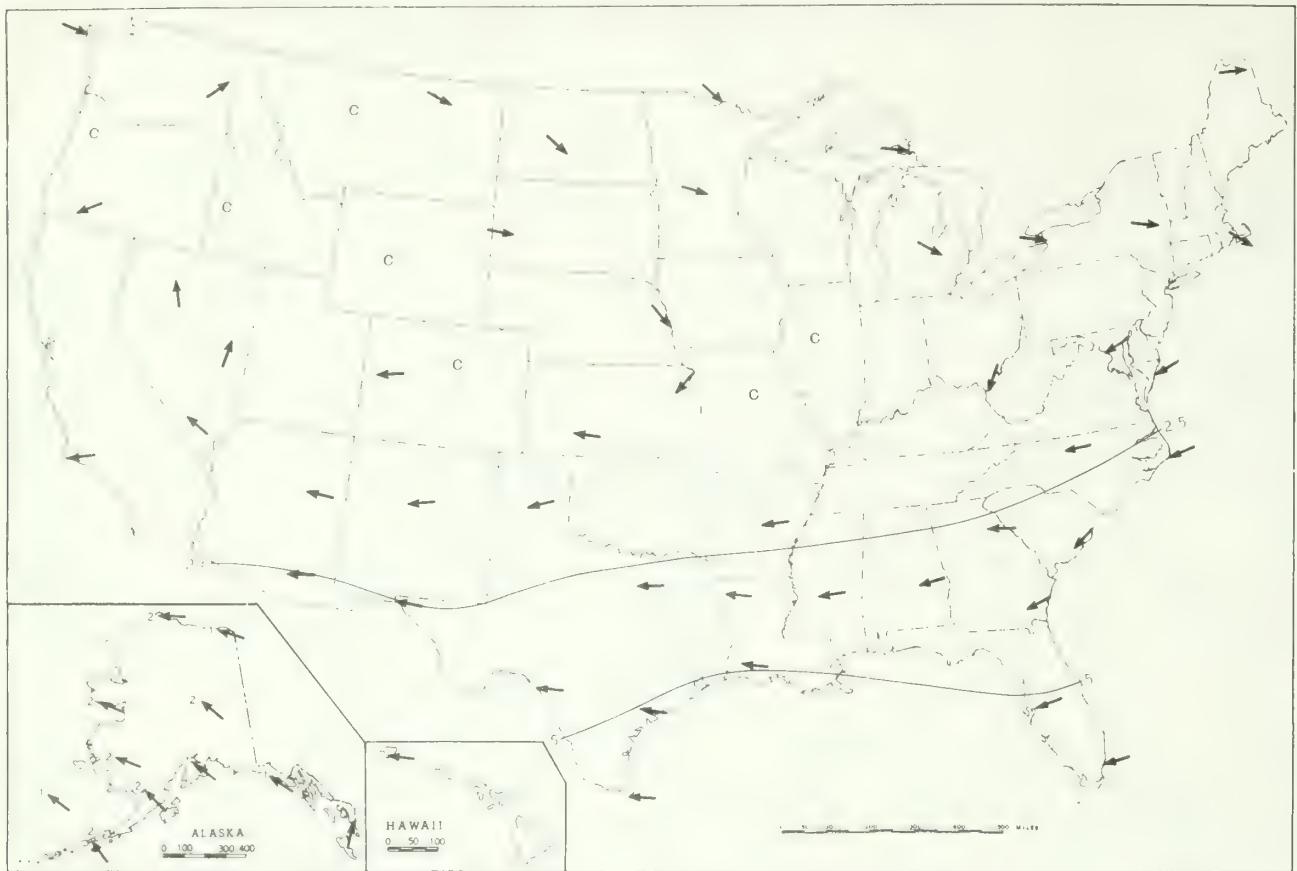


Chart XVI. 100-mb Surface, 1200 GMT, May 1970. Average Height and Temperature, and Resultant Winds.



Height in geopotential meters (1 g.p.m. = 0.98 dynamic meters). Temperature in °C. Wind speed in meters per second; flag represents 25mps, full feather 5 mps, and half feather 2.5 mps. All wind data are based on rawin observations.



B. 30-mb. Surface, 1200 GMT, May 1970. Resultant Winds.



Wind speed (isotachs) in meters per second. Arrows show resultant wind direction. All wind data are based on rawin observations.

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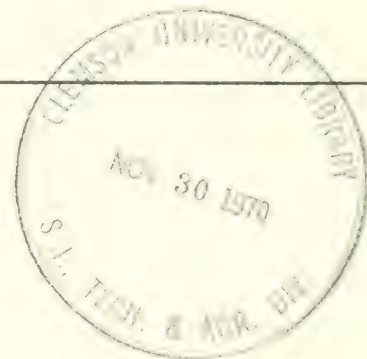
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Climatological Data

NATIONAL SUMMARY

U.S. DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
Environmental Data Service



JUNE

1970

June 21

No. 6

File, N.C.

1970

C O N T E N T S

| SURFACE DATA | Page |
|---|------|
| General Summary of Weather Conditions----- | 275 |
| Observed Extremes of Temperature and Precipitation - By States----- | 276 |
| Climatological Data - Stations - English Units----- | 277 |
| Climatological Data - Stations - Metric Units----- | 284 |
| Monthly and Seasonal Heating Degree Days----- | 291 |
| Cooling Degree Days----- | 295 |
| Storm Summary----- | 296 |
| General Summary of River and Flood Conditions----- | 297 |
| Flood Stage Data----- | 300 |
| UPPER AIR DATA | |
| Rawinsonde Data----- | 302 |
| SOLAR RADIATION DATA | |
| Solar Radiation Intensities----- | 308 |
| Daily Totals and Monthly Averages----- | 309 |
| Net Radiation----- | 311 |
| Solar Ultra-Violet Radiation----- | 311 |
| TOTAL OZONE DATA----- | 311 |
| DELAYED DATA----- | 312 |
| CHARTS I-XVII----- | 315 |

NOTE: Delayed data and corrections will be carried in the June and December issues of this publication. An explanatory page "Description of Charts" will be carried in the January and July issues.

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CLIMATOLOGICAL DATA

NATIONAL SUMMARY

Volume 21 No. 6

JUNE 1970

GENERAL SUMMARY OF WEATHER CONDITIONS

HIGHLIGHTS:

1. In general, June temperatures averaged warmer than normal over the West and North and below normal over the Central and South.
2. Tornadoes and other summer thunderstorms, some with hail, high winds, and torrential rains, fell over mid-America and the Southeast in June 1970. These are typical for almost any June. Dust storms occurred in the southwestern agricultural areas.

TEMPERATURE.--Generally speaking, June temperatures averaged above normal from the Pacific coast and across the northern Rocky Mountains to the Great Lakes and below normal from the central and southern Rockies to the Atlantic coast.

The Far West and the northern border States experienced mild weather in the first week of June. Temperatures near or exceeding 100° were common from southeastern Washington to the southwestern deserts on 1 or more days in the 1st week. Eastern Oregon and southeastern Washington averaged more than 12° above normal. In contrast, a large area comprising the central and southern Great Plains averaged 9° to 12° cooler than normal.

Marked cooling brought below-normal temperatures to the West in the 2d week of June. Subfreezing weather occurred in parts of Nevada on the 11th. Most of the Great Basin averaged 6° to 8° cooler than normal. Sunny warm weather prevailed over most of the rest of the Nation in the 2d week of the month. The main exception was in the Southeast where mild days and cool nights caused below-normal average temperatures.

Sunny skies and mostly pleasant temperatures prevailed over most of the West in the 3d week of June. Desert maximums in the Southwest reached 100° to 105°. A warm flow of tropical air from the Gulf of Mexico increased the temperature and humidity over the East. Temperatures warmed to 90° in Lower Michigan on June 17 and some stations in the Carolinas registered 100° or higher on the 18th and 19th. A slow-moving cold front brought comfortable temperatures and drier air to the Northeast by June 19.

A warming trend in the last week of June brought 100° maximums to parts of the West. Miles City, Mont., registered 100° on the 22d. Thermal and Blythe, Calif., recorded 122° and 121°, respectively, on the 25th when Phoenix and Flagstaff, Ariz., registered 116° and 95°, respectively. On the 28th, many stations from eastern North Dakota to northern Texas recorded 100° or higher. Meanwhile, cool, more comfortable weather returned to the Northeast and afternoon temperatures were generally in the 40's and low 50's as far south as Kentucky and Virginia.

In comparing the temperature records for June 1970 with those of previous years, it is noticed that Walla Walla, Washington, recorded 90° or higher on 14 days in June 1970; this is more such days than in any previous June in the 84-year record for Walla Walla. Similarly, Medford, Oreg., registered 100° or higher on 6 days setting a new record. On the 26th, the temperature at Flagstaff, Ariz., reached 96°, an all-time new high-temperature record for that location. Winslow, Ariz.,

set an all-time high-temperature record on the same date when the temperature soared to 106°. In contrast, the temperature at Roswell, N. Mex., plunged to 40° on June 2, the lowest June temperature of record at Roswell. St. Cloud, Minn., experienced their warmest June in 14 years with an average temperature of 68.6°. At Cairo, Ill., temperatures reached 90° on only 4 days, the least number in any June in 31 years.

PRECIPITATION.--For the most part, June rainfall totals were less than 2 inches from the Pacific Ocean to the Continental Divide. Most areas in the Southwest received less than 1 inch. No rain or only light rain fell at a number of California, Arizona, and New Mexico stations. Most northern States from the Continental Divide to the Atlantic Ocean received 2 to 4 inches of rain in June. Totals for eastern Kansas, Oklahoma, and from the lower Mississippi River to the Atlantic Ocean ranged mostly from 4 to 7 inches. Totals for Texas ranged mostly from 1 1/2 inches in the High Plains to about 6 inches or more along the Gulf Coast.

A sluggish eastward-moving frontal system produced heavy thundershowers from northeastern Oklahoma to southwestern Ohio in the 1st week of June. Many of the areas drenched by these rains had received heavy rains late in May. A number of tornadoes and funnel clouds were sighted from Texas northeastward to Illinois and Michigan on June 1. Early on June 3d, 2 to 4 inches of rain fell in portions of Alabama with Brewton receiving 6.45 inches. Twenty-four hour totals on the 4th ranged up to 8 inches along the middle Gulf Coast. Extensive flooding occurred in the 1st week of June in portions of Texas, Oklahoma, Kansas, Missouri, Illinois, Kentucky, and Alabama.

Mostly sunny dry weather prevailed in the 2d week of June. Heavy snow fell in the northern and central Rocky Mountains shortly after midweek. Frazer, Colo., received 7 inches of snow during the forenoon of June 11. Late in the week scattered tornadoes, large hail, high winds, and drenching rains brought destruction to a few localities. Hailstones as large as baseballs fell south of Huron, S. Dak., on the 14th. Rains exceeding 8 inches flooded streams in Kansas while strong winds raised clouds of dust in agricultural areas in Arizona.

Spotty, moderate-to-heavy thundershowers occurred from mid-America to Pennsylvania in the 3d week of June. Numerous tornadoes occurred from Kansas to Michigan and Ohio. A dozen or more touched down in Kansas. Thunderstorms, many accompanied by damaging winds or large hail, occurred in the warm moist air that lay south of a cold front which stretched eastward from the central part of the Nation. On June 15, winds at Norfolk, Neb., gusted to 92 m.p.h. Hail accumulated to 10 inches in depth about 10 miles south of Oberlin, Kans. Hail as large as softballs fell at Phoenix, Md., about 15 miles north of Baltimore. Much-needed rain fell in all parts of South Carolina in the last week of June. Generous rains also fell in the Northeast and very heavy showers fell in parts of North Carolina. Heavy thundershowers occurred from the central Great Plains to the western Gulf coast. Little or no rain fell in the Agricultural areas of the the Southwest where high winds raised clouds of dust.

OBSERVED EXTREMES OF TEMPERATURE AND PRECIPITATION -- BY STATES

JUNE 1970

| STATE | Temperature | | | | | | Precipitation | | | | |
|----------------|------------------------|---------|------|---------------------------|--------|------|-------------------------|------------|----------------------------|------------|--|
| | Monthly extremes | | | | | | Monthly extremes | | | | |
| | Station | Highest | Date | Station | Lowest | Date | Station | Greatest | Station | Least | |
| Alabama | 6 Stations | 99 | 23+ | Whatley | 47 | 7 | Wallace 2 E | <i>In.</i> | Guntersville | <i>In.</i> | |
| Alaska | 2 Stations | 80 | 7- | Anaktuvuk Pass | 12 | 6 | Ketchikan | 20.06 | Chitina | 2.01 | |
| Arizona | Willow Beach | 122 | 27+ | 2 Stations | 22 | 14+ | Apache Powder Company | 11.79 | 70 Stations | .00 | |
| Arkansas | Sheridan Tower | 102 | 29 | Narrows Dam | 43 | 3 | Yellville | 2.00 | Camden 1 | .85 | |
| California | 2 Stations | 123 | 26 | White Mountain 2 | 5 | 13 | Twin Lakes | 9.54 | 120 Stations | .00 | |
| Colorado | Pueblo City Reservoir | 108 | 28 | Berthoud Pass | 14 | 1 | Sedgwick 5 S | 5.22 | Northdale | .04 | |
| Connecticut | Hartford WB Airport | 92 | 11 | Coventry | 36 | 21 | Saugatuck Reservoir | 4.80 | Burlington | 1.87 | |
| Delaware | Dover | 93 | 12 | Georgetown 5 SW | 47 | 14 | Newark University Farm | 4.12 | Wilmington Porter Resvr | 4.93 | |
| Florida | Fernandina Beach | 102 | 19 | Fountain 3 SSE | 55 | 8 | Milton Exp Station | 6.82 | Meibourne | 1.74 | |
| Georgia | Hartwell | 104 | 19 | 3 Stations | 45 | 8 | Ellijay | 16.83 | Mount Vernon 3 WNW | .17 | |
| Hawaii | Keawakapu Beach | 93 | 24 | Mauna Loa Slope Obs. | 34 | 6 | East Honokane | 8.46 | 19 Stations | .00 | |
| Idaho | 2 Stations | 106 | 26 | 2 Stations | 21 | 2+ | Island Park Dam | 21.70 | Aberdeen Exp Station | .79 | |
| Illinois | Genseco | 99 | 30 | Walnut | 41 | 4 | Effingham | 6.34 | Danville | 1.87 | |
| Indiana | 4 Stations | 98 | 30 | Logansport Radio WSL | 38 | 22 | Princeton 1 W | 12.21 | Frankfort Disposal Pl | .97 | |
| Iowa | Mason City FAA Airport | 102 | 29 | Fayette | 39 | 4 | Tipton | 11.19 | Le Mars 2 N | .93 | |
| Kansas | McDonald | 107 | 28 | Russell Springs | 35 | 12 | Loretta | 7.95 | Elkhart | .22 | |
| Kentucky | 3 Stations | 95 | 30+ | 2 Stations | 43 | 8+ | Bernheim Forest | 12.88 | Tilford | 1.24 | |
| Louisiana | 2 Stations | 99 | 29+ | 2 Stations | 49 | 6+ | Covington 4 NNW | 12.04 | Alexandria FAA AP | .50 | |
| Maine | Woodland | 93 | 11 | Bridgewater | 29 | 14 | East Dover | 10.48 | Houlton | 2.21 | |
| Maryland | 3 Stations | 95 | 30+ | Oakland 1 SE | 36 | 7 | Hagerstown | 4.89 | 2 Stations | 2.02 | |
| Massachusetts | Chester 2 | 94 | 11 | Chester 2 | 32 | 14 | Rockport 1 ESE | 10.06 | Washington 2 | 1.69 | |
| Michigan | 4 Stations | 98 | 30+ | Vanderbilt Trout Sta | 27 | 20 | Grand Rapids WBAP Kent | 6.02 | Eagle Harbor Coast Gd | .31 | |
| Minnesota | Redwood Falls FAA AP | 104 | 29 | Cotton 10 E | 30 | 19 | Pelican Rapids | 6.53 | Cotton 10 E | 1.24 | |
| Mississippi | 3 Stations | 101 | 27+ | 6 Stations | 51 | 9+ | Biloxi City | 7.70 | Greenville 8 SW | 1.46 | |
| Missouri | Cole Camp 9 SE | 100 | 30 | 4 Stations | 45 | 6+ | Middletown 5 ENE | 13.03 | Mercer 6 NW | 2.24 | |
| Montana | Moorhead 9 NE | 104 | 27 | 2 Stations | 24 | 1 | Chester 26 NNW | 13.46 | Sonnette 2 WNW | .10 | |
| Nebraska | McCook | 108 | 29 | Agate 3 E | 26 | 5 | Stratton | 7.06 | Osceola 9 W | .63 | |
| Nevada | Sunrise Manr Las Vegas | 119 | 26+ | Ruth | 22 | 1 | Owyhee | 7.02 | 3 Stations | .00 | |
| New Hampshire | Franklin | 92 | 2 | 2 Stations | 28 | 27+ | Mount Washington | 4.68 | Grafton | 1.50 | |
| New Jersey | 2 Stations | 95 | 12+ | Sussex 1 SE | 37 | 29 | Atlantic City WB AP | 5.03 | New Milford | .95 | |
| New Mexico | Lordsburg 4 SE | 109 | 24 | Eagle Nest | 21 | 17 | Clovis | 6.36 | 3 Stations | .00 | |
| New York | New York Laurel Hill | 95 | 11 | Indian Lake 2 SW | 31 | 14 | Skaneateles | 3.74 | Elmira | .78 | |
| North Carolina | 5 Stations | 102 | 20+ | 4 Stations | 40 | 29+ | Bodie Island | 7.92 | Carthage | .57 | |
| North Dakota | 2 Stations | 100 | 28+ | Powers Lake 1 N | 35 | 1 | Wahpeton | 10.81 | Wauauga S Dak 8 N | .51 | |
| Ohio | 2 Stations | 98 | 30 | 2 Stations | 38 | 7 | Leesville Dam | 6.16 | Tom Jenkins Dam | 1.26 | |
| Oklahoma | Mutual | 110 | 17 | 2 Stations | 39 | 12+ | Daisy 2 ENE | 10.84 | Cheyenne | .08 | |
| Oregon | Ontario KSRV | 108 | 23 | 2 Stations | 22 | 30+ | Mt. Fanny | 8.83 | Cave Junction | .08 | |
| Pennsylvania | Burnt Cabins 2 NE | 98 | 11 | Clermont 4 NW | 31 | 21+ | Stoystown | 4.27 | Susquehanna | 1.30 | |
| Puerto Rico | 2 Stations | 95 | 26+ | Adjuntas Substation, P.R. | 57 | 10+ | Gurabo Substation, P.R. | 9.78 | Mayaguez Nuclear Ctr, P.R. | 2.35 | |
| Rhode Island | Providence WB Airport | 90 | 11 | Kingston | 40 | 14 | Greenville | 22.10 | North Scituate 4 W | 2.84 | |
| South Carolina | 2 Stations | 104 | 19 | Little Mountain | 43 | 30 | Tilghman For Nursery | 4.44 | Union 8 SW | .41 | |
| South Dakota | 2 Stations | 107 | 27 | 2 Stations | 31 | 2+ | Raymond 3 NE | 5.44 | Hayes 12 NNW | .41 | |
| Tennessee | 2 Stations | 96 | 27+ | 2 Stations | 43 | 29+ | Union City | 13.67 | Sevierville 1 SE | 2.03 | |
| Texas | Candelaria | 112 | 17 | 2 Stations | 38 | 4+ | Freeport 2 NW | 9.86 | 12 Stations | .00 | |
| Utah | Saint George | 115 | 26+ | Blowhard Mtn. Radar | 19 | 11 | Flaming Gorge | 3.73 | Glen Canyon City | .02 | |
| Vermont | 6 Stations | 90 | 12+ | Enosburg Falls | 31 | 14 | Mount Mansfield | 8.86 | Rochester | 2.05 | |
| Virginia | Fort Lee | 103 | 18 | Hartlow 3 WNW | 35 | 28 | Meadows of Dan 5 SW | 9.19 | Palmyra 1 E | .02 | |
| Washington | 2 Stations | 106 | 26+ | 2 Stations | 28 | 29+ | Mount Spokane Summit | 6.78 | Leavenworth 3 S | .00 | |
| West Virginia | 2 Stations | 94 | 30+ | Canaan Valley | 30 | 7 | Omps | 8.71 | Williamson 2 | 1.37 | |
| Wisconsin | Amery | 101 | 30 | Drummond 6 W | 28 | 19 | West Allis | 5.82 | Marinette | .82 | |
| Wyoming | Worland FAA AP | 107 | 27 | 2 Stations | 21 | 2+ | Yoder | 5.79 | Basin | .20 | |

Note: Dates in the above table apply to the period 24 hours prior to time of observation. In some cases the actual occurrence is on the calendar date preceding that shown. (See Individual Climatological Data for times of observations).

CLIMATOLOGICAL DATA

ENGLISH UNITS

JUNE 1976

| State and Station | Elevation (ground) | Pressure | | Temperature | | | | | | Precipitation | | | | Wind | | | | No. of days (sunrise to sunset) | | Sky cover, tenths | Possible sunshine | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | | Station Q | Sea level | Average maximum | Average minimum | Average | Departure from normal | | Highest | Lowest | Date | No. of days | | Greatest in 24 hours | With thunderstorms | Snow, Sleet | Resultant speed | | | | | Resultant direction | Fastest mile | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| ALABAMA | | Mb. | Mb. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | 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F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. |

ENGLISH UNITS

- 278 -

See footnotes at end of table

ENGLISH UNITS

See footnotes at end of table

CLIMATOLOGICAL DATA

ENGLISH UNITS

June 1970

| State and Station | Elevation (ground) | Pressure | | Temperature | | | | | | Precipitation | | | | Wind | | | | No. of days
sunrise to
sunset | | Possible sunshine | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | | Station Q | Sea level | Average maximum | Average minimum | Average | Departure from normal | Highest | Date | Lowest | Date | Max. 90° F. or above | Min. 32° F. or below | Average dew point | Average relative humidity | Total | Departure from normal | | | | Greatest in 24 hours | 01 inch or more | With thunderstorms | Snow | Sleet | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | Ft | Mb | | | | | | | F | F | F | F | F | F | F | F | F | F | In | In | In | In | Mph | Mph | Resultant speed | Resultant direction | Speed | Direction | Fastest mile | Date | Clear 0-3 | Partly cloudy 4-7 | Cloudy 8-10 | Sky cover tenths
sunrise to sunset | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| State and Station | Pressure | | | Temperature | | | | | | Precipitation | | | | Wind | | | | No. of days (sunrise to sunset) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | Station O | Sea level | Mb. | F. | F. | F. | Departure from normal | Highest | Date | Lowest | Date | No. of days | | Total | Snow, Sleet | Fastest mile | Direction | Speed | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | Average maximum | Average minimum | | | | | | Average | Departure from normal | Greatest in 24 hours | 01 inch or more | Maximum depth | On ground | Resultant speed | Resultant direction | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | Max. 90 F. or above | Min. 32 F. or below | Average relative humidity | With thunderstorms | Inch | In | Mph. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Elevation (ground) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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| | | Station | Sea level | Average maximum | | Average minimum | | Departure from normal | | Highest | | Lowest | | Date | | No. of days | | | | | Greatest in 24 hours | | Departure from normal | | Inch or more | | With thunderstorms | | Total | | Snow, Sleet | | Maximum depth on ground | | Resultant speed | | Resultant direction | | Speed | | Direction | | Date | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F |

Data from airport unless otherwise specified. U indicates Urban, R indicates Rural, sites.

Precipitation data in column headed "Greatest in 24 hours" are computed on a 24-hour basis without regard to calendar day - data may include precipitation with a measurable amount from the last day of the previous month or the first day of the following month.

Wind directions under resultant direction are in tens of degrees.

Value entered in column "Fastest Mile" is the highest observed 1-minute wind speed when the direction is in tens of degrees. These stations are not equipped with a recording anemometer from which "Fastest Mile" data can be evaluated.

B Number of days maximum 70 F. or above for Alaskan Stations.

Y Peak Gust.

+ And also on an earlier date or dates.

Ø Station pressures apply to elevations shown in the "Elevations - Station Pressure" table of the annual issue of this publication.

1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100. 101. 102. 103. 104. 105. 106. 107. 108. 109. 110. 111. 112. 113. 114. 115. 116. 117. 118. 119. 120. 121. 122. 123. 124. 125. 126. 127. 128. 129. 130. 131. 132. 133. 134. 135. 136. 137. 138. 139. 140. 141. 142. 143. 144. 145. 146. 147. 148. 149. 150. 151. 152. 153. 154. 155. 156. 157. 158. 159. 160. 161. 162. 163. 164. 165. 166. 167. 168. 169. 170. 171. 172. 173. 174. 175. 176. 177. 178. 179. 180. 181. 182. 183. 184. 185. 186. 187. 188. 189. 190. 191. 192. 193. 194. 195. 196. 197. 198. 199. 200. 201. 202. 203. 204. 205. 206. 207. 208. 209. 210. 211. 212. 213. 214. 215. 216. 217. 218. 219. 220. 221. 222. 223. 224. 225. 226. 227. 228. 229. 230. 231. 232. 233. 234. 235. 236. 237. 238. 239. 240. 241. 242. 243. 244. 245. 246. 247. 248. 249. 250. 251. 252. 253. 254. 255. 256. 257. 258. 259. 260. 261. 262. 263. 264. 265. 266. 267. 268. 269. 270. 271. 272. 273. 274. 275. 276. 277. 278. 279. 280. 281. 282. 283. 284. 285. 286. 287. 288. 289. 290. 291. 292. 293. 294. 295. 296. 297. 298. 299. 300. 301. 302. 303. 304. 305. 306. 307. 308. 309. 310. 311. 312. 313. 314. 315. 316. 317. 318. 319. 320. 321. 322. 323. 324. 325. 326. 327. 328. 329. 330. 331. 332. 333. 334. 335. 336. 337. 338. 339. 340. 341. 342. 343. 344. 345. 346. 347. 348. 349. 350. 351. 352. 353. 354. 355. 356. 357. 358. 359. 360. 361. 362. 363. 364. 365. 366. 367. 368. 369. 370. 371. 372. 373. 374. 375. 376. 377. 378. 379. 380. 381. 382. 383. 384. 385. 386. 387. 388. 389. 390. 391. 392. 393. 394. 395. 396. 397. 398. 399. 400. 401. 402. 403. 404. 405. 406. 407. 408. 409. 410. 411. 412. 413. 414. 415. 416. 417. 418. 419. 420. 421. 422. 423. 424. 425. 426. 427. 428. 429. 430. 431. 432. 433. 434. 435. 436. 437. 438. 439. 440. 441. 442. 443. 444. 445. 446. 447. 448. 449. 450. 451. 452. 453. 454. 455. 456. 457. 458. 459. 460. 461. 462. 463. 464. 465. 466. 467. 468. 469. 470. 471. 472. 473. 474. 475. 476. 477. 478. 479. 480. 481. 482. 483. 484. 485. 486. 487. 488. 489. 490. 491. 492. 493. 494. 495. 496. 497. 498. 499. 500. 501. 502. 503. 504. 505. 506. 507. 508. 509. 510. 511. 512. 513. 514. 515. 516. 517. 518. 519. 520. 521. 522. 523. 524. 525. 526. 527. 528. 529. 530. 531. 532. 533. 534. 535. 536. 537. 538. 539. 540. 541. 542. 543. 544. 545. 546. 547. 548. 549. 550. 551. 552. 553. 554. 555. 556. 557. 558. 559. 560. 561. 562. 563. 564. 565. 566. 567. 568. 569. 570. 571. 572. 573. 574. 575. 576. 577. 578. 579. 580. 581. 582. 583. 584. 585. 586. 587. 588. 589. 590. 591. 592. 593. 594. 595. 596. 597. 598. 599. 600. 601. 602. 603. 604. 605. 606. 607. 608. 609. 610. 611. 612. 613. 614. 615. 616. 617. 618. 619. 620. 621. 622. 623. 624. 625. 626. 627. 628. 629. 630. 631. 632. 633. 634. 635. 636. 637. 638. 639. 640. 641. 642. 643. 644. 645. 646. 647. 648. 649. 650. 651. 652. 653. 654. 655. 656. 657. 658. 659. 660. 661. 662. 663. 664. 665. 666. 667. 668. 669. 670. 671. 672. 673. 674. 675. 676. 677. 678. 679. 680. 681. 682. 683. 684. 685. 686. 687. 688. 689. 690. 691. 692. 693. 694. 695. 696. 697. 698. 699. 700. 701. 702. 703. 704. 705. 706. 707. 708. 709. 710. 711. 712. 713. 714. 715. 716. 717. 718. 719. 720. 721. 722. 723. 724. 725. 726. 727. 728. 729. 730. 731. 732. 733. 734. 735. 736. 737. 738. 739. 740. 741. 742. 743. 744. 745. 746. 747. 748. 749. 750. 751. 752. 753. 754. 755. 756. 757. 758. 759. 760. 761. 762. 763. 764. 765. 766. 767. 768. 769. 770. 771. 772. 773. 774. 775. 776. 777. 778. 779. 780. 781. 782. 783. 784. 785. 786. 787. 788. 789. 790. 791. 792. 793. 794. 795. 796. 797. 798. 799. 800. 801. 802. 803. 804. 805. 806. 807. 808. 809. 810. 811. 812. 813. 814. 815. 816. 817. 818. 819. 820. 821. 822. 823. 824. 825. 826. 827. 828. 829. 830. 831. 832. 833. 834. 835. 836. 837. 838. 839. 840. 84

See footnotes at end of table

METRIC UNITS

dicta et hoc ita videtur, et

METRIC UNITS

1972

See footnotes at end of table

CLIMATOLOGICAL DATA

METRIC UNITS

JUNE 1470

[illegible]

See footnotes at end of table.

METRIC UNITS

See footnotes at end of table

METRIC UNITS

JUNE 1976

100

2470

- 290 -

MONTHLY AND SEASONAL HEATING DEGREE DAYS

(Base 65°F)

| State and Station | July | Aug. | Sept. | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | Total for Season | Normals July-June |
|---------------------|------|------|-------|------|------|------|------|------|------|------|------|------|------------------|-------------------|
| ALABAMA | | | | | | | | | | | | | | |
| BIRMINGHAM | 0 | 0 | 4 | 110 | 443 | 663 | 830 | 568 | 377 | 91 | 23 | 0 | 3109 | 3080 |
| HUNTSVILLE | 0 | 0 | 9 | 142 | 506 | 728 | 902 | 679 | 466 | 99 | 25 | 0 | 3552 | 3520 |
| MOBILE | 0 | 0 | 0 | 0 | 20 | 220 | 746 | 618 | 190 | 16 | 10 | 0 | 1780 | 1780 |
| MONTGOMERY | 0 | 0 | 0 | 55 | 374 | 589 | 760 | 505 | 297 | 81 | 13 | 0 | 2644 | 2291 |
| ALASKA | | | | | | | | | | | | | | |
| ANCHORAGE | 168 | 330 | 478 | 732 | 1235 | 1128 | 1722 | 983 | 210 | 852 | 615 | 98 | 1341 | 10648 |
| ANNETTE | 181 | 211 | 210 | 432 | 668 | 758 | 963 | 640 | 638 | 604 | 452 | 235 | 5992 | 7069 |
| BARROW | 935 | 1023 | 1049 | 1516 | 2248 | 2258 | 2406 | 2303 | 2591 | 2041 | 1416 | 959 | 20745 | 20174 |
| BARTER ISLAND | 807 | 969 | 1030 | 1350 | 2144 | 2194 | 2509 | 2308 | 2619 | 1964 | 1386 | 938 | 22220 | 19862 |
| BETHEL | 343 | 486 | 514 | 921 | 1660 | 1626 | 2133 | 1355 | 1430 | 1272 | 663 | 386 | 1444 | 14000 |
| BETHEL | 263 | 408 | 509 | 1104 | 2166 | 1699 | 2572 | 1790 | 1798 | 1233 | 618 | 317 | 14688 | 14283 |
| BIG DELTA | 234 | 509 | 561 | 918 | 1760 | 1526 | 2421 | 1416 | 1264 | 1144 | 517 | 325 | 12417 | 12000 |
| COLD BAY | 361 | 353 | 436 | 680 | 939 | 1039 | 1311 | 1025 | 1024 | 987 | 745 | 612 | 12417 | 12000 |
| FAIRBANKS | 170 | 467 | 472 | 955 | 1914 | 1892 | 2524 | 1595 | 1365 | 981 | 401 | 219 | 12939 | 12000 |
| GULKANA | 269 | 528 | 635 | 998 | 1824 | 1739 | 2427 | 1294 | 1233 | 994 | 620 | 414 | 12974 | 12000 |
| HOMER | 355 | 439 | 530 | 704 | 1123 | 972 | 1500 | 884 | 912 | 894 | 658 | 475 | 9446 | 9446 |
| ILIADNA | 290 | 384 | 484 | 745 | 1304 | 1156 | 1998 | 1064 | 1064 | 1060 | 810 | 422 | 8760 | 9075 |
| JUNEAU | 343 | 448 | 521 | 724 | 975 | 921 | 1329 | 830 | 879 | 770 | 601 | 422 | 8760 | 9075 |
| KING SALMON | 323 | 428 | 499 | 805 | 1435 | 1197 | 2024 | 1178 | 1013 | 1069 | 616 | 410 | 1444 | 11343 |
| KOTZEBUE | 402 | 603 | 580 | 1051 | 1909 | 1733 | 2434 | 1710 | 1626 | 1626 | 1066 | 326 | 14066 | 14105 |
| MC GRATH | 270 | 505 | 566 | 980 | 1939 | 1862 | 2731 | 1639 | 1521 | 1179 | 568 | 326 | 14066 | 14105 |
| NOME | 451 | 607 | 550 | 971 | 1684 | 1684 | 2150 | 1475 | 1647 | 1494 | 878 | 568 | 14036 | 14171 |
| ST. PAUL ISLAND | 512 | 459 | 548 | 798 | 1097 | 1097 | 1474 | 1079 | 1224 | 1154 | 949 | 601 | 10898 | 11199 |
| SHEMYA | 527 | 436 | 471 | 734 | 877 | 1092 | 1022 | 1374 | 1057 | 808 | 810 | 422 | 9585 | 9687 |
| SUMMIT | 428 | 643 | 663 | 979 | 1669 | 1430 | 2193 | 1305 | 1319 | 1306 | 813 | 422 | 14036 | 14171 |
| TALKEETNA | 227 | 441 | 564 | 864 | 1358 | 1254 | 1884 | 1045 | 1174 | 960 | 431 | 388 | 14036 | 14171 |
| UNALAKLEET | 376 | 567 | 522 | 966 | 1630 | 1528 | 2298 | 1489 | 1526 | 1383 | 857 | 547 | 13653 | 11559 |
| YAKUTAT | 396 | 506 | 502 | 724 | 973 | 937 | 1258 | 873 | 911 | 877 | 704 | 472 | 9153 | 9000 |
| ARIZONA | | | | | | | | | | | | | | |
| FLAGSTAFF | 21 | 37 | 200 | 753 | 926 | 978 | 1051 | 775 | 962 | 821 | 378 | 174 | 7076 | 7153 |
| PHOENIX | 0 | 0 | 0 | 12 | 95 | 307 | 393 | 134 | 166 | 60 | 0 | 0 | 1167 | 1765 |
| TUCSON | 0 | 0 | 0 | 55 | 188 | 384 | 455 | 224 | 274 | 123 | 8 | 0 | 1720 | 18100 |
| WINSTON | 0 | 0 | 2 | 404 | 697 | 847 | 996 | 623 | 702 | 512 | 94 | 0 | 4890 | 4782 |
| YUMA | 0 | 0 | 0 | 3 | 67 | 257 | 306 | 116 | 108 | 53 | 0 | 0 | 91 | 1811 |
| ARKANSAS | | | | | | | | | | | | | | |
| FORT SMITH | 0 | 0 | 0 | 182 | 474 | 731 | 951 | 600 | 528 | 112 | 0 | 0 | 3612 | 3292 |
| LITTLE ROCK | 0 | 0 | 0 | 175 | 458 | 745 | 905 | 636 | 516 | 124 | 23 | 0 | 3582 | 3219 |
| CALIFORNIA | | | | | | | | | | | | | | |
| BAKERSFIELD | 0 | 0 | 0 | 45 | 207 | 424 | 427 | 239 | 195 | 158 | 15 | 0 | 1622 | 2122 |
| BISHOP | 0 | 0 | 2 | 388 | 440 | 791 | 833 | 548 | 551 | 457 | 78 | 27 | 4224 | 4227 |
| BLUE CANYON | 5 | 2 | 69 | 407 | 407 | 762 | 871 | 434 | 760 | 733 | 384 | 198 | 5243 | 5243 |
| EUREKA U | 284 | 282 | 247 | 295 | 404 | 419 | 392 | 374 | 462 | 521 | 385 | 313 | 4378 | 4643 |
| FRESNO | 0 | 0 | 0 | 166 | 349 | 574 | 485 | 340 | 291 | 237 | 10 | 0 | 2462 | 2492 |
| LONG BEACH | 0 | 0 | 0 | 23 | 56 | 213 | 274 | 155 | 163 | 151 | 37 | 1 | 168 | 1711 |
| LOS ANGELES | 0 | 0 | 3 | 28 | 59 | 199 | 244 | 121 | 168 | 167 | 71 | 10 | 1070 | 1799 |
| LOS ANGELES U | 0 | 0 | 0 | 22 | 52 | 182 | 222 | 106 | 128 | 134 | 27 | 1 | 874 | 1349 |
| MT SHASTA R | 14 | 14 | 124 | 555 | 644 | 830 | 858 | 658 | 711 | 668 | 288 | 153 | 5517 | 5722 |
| OAKLAND | 85 | 60 | 49 | 134 | 287 | 366 | 385 | 271 | 264 | 314 | 173 | 134 | 2525 | 2870 |
| RED BLUFF | 0 | 0 | 0 | 129 | 304 | 477 | 486 | 346 | 326 | 263 | 52 | 4 | 2383 | 2515 |
| SACRAMENTO | 0 | 0 | 1 | 129 | 323 | 519 | 478 | 359 | 304 | 249 | 54 | 0 | 2436 | 2773 |
| SANDRIDGE R | 10 | 0 | 13 | 376 | 455 | 650 | 733 | 559 | 606 | 695 | 223 | 133 | 4473 | 4209 |
| SAN DIEGO | 0 | 0 | 0 | 14 | 44 | 178 | 240 | 142 | 133 | 143 | 58 | 12 | 964 | 1439 |
| SAN FRANCISCO | 86 | 70 | 54 | 113 | 261 | 347 | 384 | 277 | 260 | 331 | 168 | 133 | 2478 | 3012 |
| SAN FRANCISCO U | 221 | 171 | 132 | 107 | 166 | 332 | 334 | 210 | 222 | 341 | 237 | 242 | 2660 | 3001 |
| SANTA MARIA | 66 | 78 | 71 | 147 | 190 | 385 | 335 | 279 | 322 | 356 | 188 | 167 | 2584 | 2967 |
| STOCKTON | 0 | 0 | 0 | 149 | 349 | 513 | 482 | 379 | 322 | 251 | 47 | 0 | 2497 | 2476 |
| COLORADO | | | | | | | | | | | | | | |
| ALAMOSA | 9 | 25 | 295 | 812 | 1036 | 1402 | 1496 | 1013 | 1123 | 857 | 414 | 234 | 8707 | 8529 |
| COLORADO SPRINGS | 1 | 8 | 104 | 720 | 833 | 1053 | 1135 | 772 | 909 | 666 | 218 | 95 | 6601 | 6423 |
| DENVER | 2 | 0 | 56 | 801 | 769 | 998 | 1061 | 734 | 969 | 632 | 200 | 78 | 6300 | 6283 |
| GRAND JUNCTION | 0 | 0 | 20 | 545 | 764 | 995 | 1100 | 671 | 772 | 544 | 115 | 30 | 5585 | 5641 |
| PUEBLO | 0 | 0 | 4 | 468 | 626 | 865 | 1024 | 645 | 796 | 418 | 80 | 20 | 4957 | 5462 |
| CONNECTICUT | | | | | | | | | | | | | | |
| BRIDGEPORT | 1 | 4 | 92 | 321 | 593 | 996 | 1269 | 931 | 860 | 465 | 172 | 32 | 5736 | 5617 |
| HARTFORD | 8 | 7 | 116 | 409 | 707 | 1175 | 1485 | 1026 | 922 | 483 | 161 | 37 | 6586 | 6172 |
| DELAWARE | | | | | | | | | | | | | | |
| WILMINGTON | 0 | 0 | 41 | 288 | 606 | 993 | 1250 | 876 | 803 | 389 | 95 | 1 | 5342 | 4930 |
| DIST. OF COLUMBIA | | | | | | | | | | | | | | |
| WASHINGTON DULLES | 0 | 8 | 20 | 374 | 681 | 1047 | 1267 | 898 | 877 | 579 | 121 | 17 | 5724 | 5724 |
| WASHINGTON NATIONAL | 0 | 0 | 18 | 226 | 524 | 882 | 1077 | 773 | 713 | 504 | 54 | 0 | 4565 | 4224 |
| FLORIDA | | | | | | | | | | | | | | |
| APALACHICOLA U | 0 | 0 | 0 | 2 | 207 | 337 | 537 | 356 | 149 | 18 | 0 | 0 | 1606 | 1606 |
| DAYTONA BEACH | 0 | 0 | 0 | 0 | 105 | 272 | 330 | 252 | 40 | 2 | 0 | 0 | 1041 | 1041 |
| FORT MYERS | 0 | 0 | 0 | 0 | 53 | 136 | 224 | 146 | 40 | 0 | 0 | 0 | 599 | 440 |
| JACKSONVILLE | 0 | 0 | 0 | 0 | 201 | 353 | 522 | 335 | 123 | 22 | 0 | 0 | 1556 | 1239 |
| KEY WEST | 0 | 0 | 0 | 0 | 0 | 15 | 47 | 19 | 2 | 0 | 0 | 0 | 83 | 100 |
| LAKELAND U | 0 | 0 | 0 | 0 | 111 | 193 | 339 | 203 | 71 | 0 | 0 | 0 | 917 | 917 |
| MIAMI | 0 | 0 | 0 | 0 | 21 | 53 | 117 | 58 | 19 | 0 | 0 | 0 | 268 | 268 |
| ORLANDO | 0 | 0 | 0 | 0 | 93 | 204 | 314 | 187 | 58 | 0 | 0 | 0 | 668 | 668 |
| PENSACOLA | 0 | 0 | 0 | 0 | 210 | 352 | 473 | 377 | 174 | 17 | 0 | 0 | 1716 | 1463 |
| TALLAHASSEE | 0 | 0 | 0 | 0 | 2 | 286 | 464 | 589 | 424 | 186 | 41 | 4 | 1996 | 1485 |
| TAMPA | 0 | 0 | 0 | 0 | 111 | 218 | 343 | 210 | 81 | 0 | 0 | 0 | 683 | 683 |
| WEST PALM BEACH | 0 | 0 | 0 | 0 | 41 | 114 | 176 | 114 | 36 | 0 | 0 | 0 | 470 | 253 |
| GEORGIA | | | | | | | | | | | | | | |
| ATHENS | 0 | 0 | 13 | 112 | 447 | 699 | 865 | 644 | 370 | 117 | 14 | 0 | 3210 | 2929 |
| ATLANTA | 0 | 0 | 13 | 125 | 445 | 719 | 891 | 684 | 371 | 95 | 15 | 0 | 3264 | 2983 |
| AUGUSTA | 0 | 0 | 3 | 79 | 432 | 655 | 844 | 545 | 311 | 113 | 13 | 0 | 3004 | 2397 |
| COLUMBUS | 0 | 0 | 0 | 49 | 387 | 601 | 790 | 500 | 294 | 60 | 2 | 0 | 2692 | 2383 |
| MACON | 0 | 0 | 6 | 45 | 348 | 572 | 742 | 460 | 253 | 55 | 0 | 0 | 2483 | 2136 |
| ROME | 0 | 0 | 10 | 181 | 544 | 781 | 951 | 650 | 434 | 127 | 26 | 0 | 3703 | 3703 |
| SAVANNAH | 0 | 0 | 0 | 38 | 332 | 530 | 698 | 437 | 199 | 57 | 0 | 0 | 2299 | 1819 |
| IDAHO | | | | | | | | | | | | | | |
| BOISE | 3 | 13 | 91 | 584 | 741 | 938 | 886 | 659 | 394 | 631 | 249 | 38 | 5404 | 5404 |
| LEWISTON | 0 | 10 | 84 | 574 | 719 | 924 | 942 | 638 | 481 | 554 | 180 | 56 | 3323 | 3323 |
| POCATELLO | 24 | 17 | 106 | 685 | 878 | 1124 | 1383 | 772 | 888 | 771 | 140 | 141 | 6833 | 7033 |
| ILLINOIS | | | | | | | | | | | | | | |
| CAIRO U | 0 | 0 | 2 | 209 | 567 | 892 | 1094 | 600 | 647 | 142 | 24 | 0 | 4480 | 3821 |
| CHICAGO O'HARE | 4 | 0 | 75 | 423 | 794 | 1138 | 1504 | 1086 | 629 | 418 | 168 | 44 | 6888 | 6439 |

Data from airport unless otherwise specified.
U indicates Urban, R indicates Rural, sites.

MONTHLY AND SEASONAL HEATING DEGREE DAYS

(Base 65°F)

1969-1970

| State and Station | July | Aug. | Sept. | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | Total for Season | Normals July-June |
|----------------------|------|------|-------|------|------|------|------|------|------|------|-----|------|------------------|-------------------|
| ILLINOIS | | | | | | | | | | | | | | |
| CHICAGO-MIDWAY | 2 | 0 | 54 | 390 | 777 | 1118 | 1475 | 1071 | 919 | 406 | 149 | 27 | 4390 | 6155 |
| MALINE | 0 | 0 | 80 | 445 | 805 | 1253 | 1607 | 1120 | 967 | 419 | 118 | 21 | 6835 | 6408 |
| PEORIA | 0 | 0 | 77 | 443 | 818 | 1211 | 1545 | 1088 | 914 | 402 | 115 | 28 | 6641 | 6025 |
| ROCKFORD | 4 | 1 | 115 | 486 | 845 | 1256 | 1627 | 1191 | 983 | 502 | 203 | 44 | 7257 | 6830 |
| SPRINGFIELD | 0 | 0 | 59 | 370 | 748 | 1135 | 1457 | 1013 | 830 | 332 | 83 | 26 | 6053 | 5429 |
| INDIANA | | | | | | | | | | | | | | |
| EVANSVILLE | 0 | 0 | 35 | 299 | 693 | 1034 | 1266 | 896 | 716 | 225 | 57 | 1 | 5222 | 4435 |
| FORT WAYNE | 0 | 0 | 94 | 383 | 839 | 1166 | 1560 | 1053 | 951 | 448 | 142 | 32 | 6668 | 6205 |
| INDIANAPOLIS | 0 | 0 | 84 | 358 | 816 | 1137 | 1458 | 1012 | 829 | 316 | 95 | 11 | 6117 | 5699 |
| SOUTH BEND | 0 | 0 | 110 | 421 | 826 | 1158 | 1485 | 1094 | 1007 | 497 | 181 | 68 | 6847 | 6439 |
| IOWA | | | | | | | | | | | | | | |
| BUPLINGTON | 0 | 0 | 75 | 451 | 804 | 1229 | 1537 | 1046 | 938 | 420 | 99 | 23 | 6622 | 6114 |
| DES MOINES | 0 | 0 | 45 | 478 | 773 | 1270 | 1617 | 1055 | 987 | 422 | 99 | 9 | 6755 | 6808 |
| DUBUQUE | 7 | 0 | 140 | 555 | 916 | 1376 | 1756 | 1261 | 1035 | 502 | 180 | 46 | 7794 | 7376 |
| SIOUX CITY | 0 | 0 | 58 | 470 | 813 | 1334 | 1690 | 1057 | 1069 | 475 | 110 | 13 | 7189 | 6951 |
| WATERLOO | 9 | 4 | 150 | 595 | 935 | 1473 | 1851 | 1330 | 1104 | 536 | 182 | 32 | 8201 | 7320 |
| KANSAS | | | | | | | | | | | | | | |
| CONCORDIA | 0 | 0 | 12 | 450 | 664 | 1075 | 1288 | 824 | 876 | 391 | 59 | 23 | 5662 | 5479 |
| DORSEY CITY | 0 | 0 | 8 | 415 | 578 | 894 | 1079 | 672 | 878 | 382 | 58 | 33 | 4997 | 4986 |
| EMPORIA | 0 | 0 | 24 | 678 | 701 | 985 | 1092 | 768 | 971 | 532 | 137 | 61 | 5880 | 6141 |
| TOPEKA | 0 | 0 | 17 | 408 | 666 | 1083 | 1284 | 811 | 785 | 373 | 45 | 29 | 5504 | 5182 |
| WICHITA | 0 | 0 | 2 | 361 | 610 | 939 | 1163 | 738 | 778 | 312 | 43 | 26 | 4972 | 4620 |
| KENTUCKY | | | | | | | | | | | | | | |
| COVINGTON | 0 | 0 | 66 | 309 | 737 | 1058 | 1265 | 954 | 797 | 264 | 91 | 2 | 5543 | 5265 |
| LEXINGTON | 0 | 0 | 44 | 274 | 657 | 996 | 1209 | 908 | 750 | 251 | 84 | 1 | 5174 | 4683 |
| LOUISVILLE | 0 | 0 | 42 | 282 | 645 | 971 | 1141 | 875 | 697 | 200 | 70 | 0 | 4923 | 4660 |
| LOUISIANA | | | | | | | | | | | | | | |
| ALEXANDRIA | 0 | 0 | 0 | 65 | 350 | 614 | 704 | 469 | 325 | 75 | 20 | 0 | 2524 | 1921 |
| BATON ROUGE | 0 | 0 | 0 | 35 | 240 | 482 | 591 | 379 | 198 | 31 | 14 | 0 | 1870 | 1560 |
| LAKE CHARLES | 0 | 0 | 0 | 24 | 260 | 382 | 584 | 354 | 249 | 37 | 5 | 0 | 1895 | 1459 |
| NEW ORLEANS | 0 | 0 | 0 | 19 | 224 | 330 | 561 | 367 | 171 | 24 | 5 | 0 | 1701 | 1385 |
| SHREVEPORT | 0 | 0 | 0 | 96 | 314 | 510 | 713 | 429 | 344 | 58 | 14 | 0 | 2468 | 2184 |
| MAINE | | | | | | | | | | | | | | |
| CARIBOU | 109 | 86 | 364 | 732 | 895 | 1331 | 1861 | 1449 | 1221 | 800 | 440 | 142 | 9430 | 9767 |
| PORTLAND | 30 | 7 | 179 | 494 | 710 | 1120 | 1491 | 1104 | 1005 | 637 | 283 | 93 | 7153 | 7511 |
| MARYLAND | | | | | | | | | | | | | | |
| BALTIMORE | 0 | 0 | 24 | 251 | 561 | 916 | 1148 | 822 | 752 | 346 | 77 | 0 | 4899 | 4654 |
| MASSACHUSETTS | | | | | | | | | | | | | | |
| BLUE HILL OBS R | 23 | 13 | 146 | 406 | 692 | 1112 | 1453 | 1014 | 969 | 529 | 228 | 85 | 6670 | 6368 |
| BOSTON | 2 | 3 | 107 | 326 | 595 | 973 | 1295 | 909 | 846 | 473 | 184 | 52 | 5765 | 5634 |
| NANTUCKET | 14 | 23 | 106 | 356 | 560 | 888 | 1239 | 865 | 664 | 324 | 79 | 19 | 5940 | 4891 |
| WORCESTER | 19 | 15 | 163 | 469 | 773 | 1224 | 1567 | 1137 | 1068 | 604 | 261 | 99 | 7378 | 6969 |
| MICHIGAN | | | | | | | | | | | | | | |
| ALPENA | 43 | 32 | 260 | 633 | 916 | 1306 | 1589 | 1354 | 1256 | 687 | 417 | 161 | 8674 | 8506 |
| DETROIT | 0 | 1 | 84 | 401 | 748 | 1151 | 1442 | 1119 | 1020 | 494 | 183 | 38 | 6681 | 6232 |
| DETROIT METRO | 0 | 0 | 93 | 418 | 804 | 1189 | 1491 | 1130 | 993 | 479 | 168 | 49 | 6814 | 6516 |
| FLINT | 16 | 11 | 143 | 485 | 836 | 1216 | 1519 | 1156 | 1075 | 544 | 238 | 80 | 7339 | 6885 |
| GRAND RAPIDS | 3 | 2 | 145 | 524 | 938 | 1232 | 1481 | 1196 | 1117 | 559 | 216 | 61 | 7664 | 6998 |
| HOUGHTON LAKE | 18 | 28 | 250 | 603 | 939 | 1362 | 1621 | 1373 | 1296 | 682 | 348 | 122 | 8860 | 8342 |
| LANSING | 9 | 6 | 119 | 442 | 858 | 1208 | 1498 | 1153 | 1106 | 564 | 235 | 97 | 7315 | 6909 |
| MARQUETTE U | 31 | 21 | 209 | 628 | 965 | 1215 | 1568 | 1233 | 1234 | 739 | 557 | 186 | 8658 | 8393 |
| MUSKEGON | 5 | 1 | 143 | 471 | 850 | 1192 | 1411 | 1172 | 1124 | 564 | 248 | 54 | 7235 | 6696 |
| SAULT STE MARIE | 92 | 55 | 292 | 683 | 957 | 1399 | 1707 | 1531 | 1382 | 774 | 528 | 203 | 9603 | 9048 |
| MINNESOTA | | | | | | | | | | | | | | |
| DULUTH | 99 | 20 | 258 | 746 | 1075 | 1466 | 1939 | 1581 | 1355 | 781 | 573 | 162 | 10055 | 10000 |
| INTERNATIONAL FALLS | 74 | 33 | 308 | 843 | 1200 | 1567 | 2106 | 1694 | 1467 | 829 | 565 | 83 | 10765 | 10606 |
| MINNEAPOLIS | 5 | 0 | 131 | 580 | 933 | 1379 | 1842 | 1382 | 1204 | 577 | 249 | 20 | 8302 | 8382 |
| ROCHESTER | 10 | 12 | 177 | 614 | 934 | 1428 | 1880 | 1392 | 1189 | 588 | 248 | 56 | 8528 | 8295 |
| ST CLOUD | 22 | 2 | 182 | 673 | 1004 | 1457 | 1927 | 1476 | 1336 | 692 | 334 | 45 | 9150 | 8879 |
| MISSISSIPPI | | | | | | | | | | | | | | |
| JACKSON | 0 | 0 | 0 | 95 | 372 | 550 | 741 | 516 | 340 | 72 | 23 | 0 | 2709 | 2203 |
| MERIDIAN | 0 | 0 | 1 | 95 | 374 | 563 | 732 | 515 | 330 | 68 | 23 | 0 | 2701 | 2289 |
| MISSOURI | | | | | | | | | | | | | | |
| COLUMBIA REGIONAL | 0 | 0 | 3 | 330 | 656 | 1049 | 1302 | 922 | 792 | 304 | 59 | 22 | 4897 | 4711 |
| KANSAS CITY | 0 | 0 | 5 | 382 | 623 | 1012 | 1263 | 767 | 715 | 280 | 26 | 22 | 5104 | 5484 |
| ST JOSEPH | 0 | 0 | 27 | 313 | 444 | 1013 | 1241 | 893 | 751 | 257 | 55 | 20 | 5214 | 4900 |
| SPRINGFIELD | 0 | 0 | 20 | 340 | 620 | 968 | 1208 | 845 | 805 | 290 | 89 | 7 | 5194 | 4561 |
| MONTANA | | | | | | | | | | | | | | |
| BILLINGS | 17 | 4 | 116 | 766 | 780 | 1050 | 1382 | 891 | 1095 | 787 | 329 | 77 | 7294 | 7049 |
| GLASGOW | 19 | 7 | 160 | 800 | 908 | 1301 | 1798 | 1297 | 1251 | 758 | 334 | 46 | 8696 | 8996 |
| GREAT FALLS | 27 | 12 | 182 | 828 | 743 | 1081 | 1559 | 908 | 1108 | 785 | 345 | 95 | 7659 | 7750 |
| HAVRE | 26 | 15 | 159 | 808 | 842 | 1317 | 1793 | 1242 | 1216 | 753 | 282 | 54 | 8507 | 8700 |
| HELENA | 35 | 14 | 219 | 826 | 918 | 1207 | 1427 | 904 | 1132 | 849 | 409 | 153 | 8113 | 8129 |
| KALISPELL | 109 | 102 | 290 | 774 | 947 | 1197 | 1418 | 1054 | 1062 | 743 | 393 | 127 | 8216 | 8191 |
| MILES CITY | 0 | 0 | 69 | 749 | 817 | 1216 | 1653 | 1045 | 1149 | 754 | 275 | 32 | 7767 | 7723 |
| MISSOULA | 69 | 46 | 262 | 763 | 991 | 1200 | 1297 | 911 | 942 | 751 | 377 | 140 | 7749 | 8125 |
| NEBRASKA | | | | | | | | | | | | | | |
| GRAND ISLAND | 0 | 0 | 25 | 586 | 740 | 1212 | 1455 | 919 | 973 | 471 | 93 | 14 | 6488 | 6530 |
| LINCOLN U | 0 | 0 | 12 | 469 | 664 | 1171 | 1433 | 883 | 891 | 379 | 61 | 7 | 5970 | 5864 |
| NORFOLK | 0 | 3 | 44 | 612 | 776 | 1293 | 1596 | 1015 | 1089 | 511 | 126 | 23 | 7088 | 6979 |
| NORTH PLATTE | 1 | 0 | 45 | 716 | 795 | 1129 | 1315 | 923 | 1041 | 582 | 136 | 55 | 6738 | 6684 |
| OMAHA | 0 | 0 | 25 | 478 | 714 | 1242 | 1507 | 917 | 894 | 388 | 68 | 2 | 6235 | 6218 |
| SCOTTSBLUFF | 0 | 0 | 30 | 737 | 793 | 1054 | 1247 | 891 | 1065 | 703 | 252 | 109 | 6881 | 6673 |
| WARTBURG | 0 | 8 | 46 | 696 | 787 | 1198 | 1482 | 991 | 1152 | 665 | 172 | 47 | 7244 | 7425 |
| NEVADA | | | | | | | | | | | | | | |
| ELKO | 24 | 3 | 120 | 736 | 916 | 1166 | 1148 | 782 | 974 | 849 | 431 | 190 | 7344 | 7433 |
| ELY | 24 | 7 | 127 | 757 | 892 | 1084 | 1100 | 834 | 990 | 900 | 435 | 234 | 7386 | 7733 |
| LAS VEGAS | 0 | 0 | 0 | 112 | 341 | 589 | 643 | 344 | 304 | 208 | 8 | 0 | 2549 | 2709 |
| RENO | 5 | 12 | 79 | 605 | 772 | 871 | 851 | 638 | 724 | 622 | 216 | 90 | 5485 | 6332 |
| WHEATRIDGE | 16 | 9 | 85 | 685 | 862 | 1022 | 949 | 499 | 807 | 805 | 298 | 120 | 6447 | 6761 |
| NEW HAMPSHIRE | | | | | | | | | | | | | | |
| CONCORD | 64 | 40 | 193 | 534 | 777 | 1275 | 1668 | 1179 | 1065 | 572 | 256 | 108 | 7721 | 7383 |
| MT WASHINGTON OBS | 540 | 527 | 450 | 1058 | 1269 | 1676 | 2127 | 1679 | 1667 | 1266 | 867 | 592 | 13922 | 13817 |

Data from airport unless otherwise specified.

U indicates Urban, R indicates Rural, sites.

MONTHLY AND SEASONAL HEATING DEGREE DAYS

(Base 65°F)

| State and Station | July | Aug. | Sept. | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | Total
for
Season | Normals
for
Season |
|---------------------|------|------|-------|------|------|------|------|------|------|------|-----|------|------------------------|--------------------------|
| NEW JERSEY | | | | | | | | | | | | | | |
| ATLANTIC CITY | 4 | 16 | 108 | 146 | 626 | 939 | 1174 | 867 | 820 | 453 | 146 | 13 | 5542 | 4811 |
| ATLANTIC CITY U | 0 | 0 | 25 | 222 | 609 | 833 | 1093 | 789 | 736 | 411 | 142 | 5 | 4743 | 4741 |
| NEWARK | 0 | 0 | 49 | 284 | 675 | 994 | 1255 | 892 | 796 | 390 | 97 | 5 | 5127 | 4667 |
| TRENTON U | 0 | 0 | 56 | 286 | 580 | 969 | 1220 | 899 | 836 | 409 | 119 | 8 | 5172 | 4682 |
| NEW MEXICO | | | | | | | | | | | | | | |
| ALBUQUERQUE | 0 | 0 | 1 | 368 | 701 | 795 | 938 | 612 | 644 | 367 | 63 | 11 | 4486 | 4348 |
| CLAYTON | 0 | 0 | 28 | 530 | 668 | 886 | 1005 | 708 | 875 | 483 | 125 | 58 | 5366 | 4158 |
| ROSWELL | 0 | 0 | 0 | 257 | 529 | 738 | 861 | 523 | 565 | 214 | 55 | 17 | 3759 | 3793 |
| NEW YORK | | | | | | | | | | | | | | |
| ALBANY | 13 | 22 | 137 | 491 | 749 | 1339 | 1708 | 1148 | 1016 | 405 | 165 | 75 | 7378 | 4875 |
| BINGHAMTON | 30 | 40 | 195 | 525 | 808 | 1280 | 1499 | 1116 | 1113 | 599 | 261 | 124 | 7590 | 7286 |
| BUFFALO | 13 | 16 | 147 | 433 | 769 | 1240 | 1459 | 1121 | 1076 | 552 | 255 | 66 | 7147 | 7062 |
| NEW YORK U | 0 | 0 | 28 | 240 | 551 | 974 | 1227 | 890 | 809 | 387 | 109 | 6 | 5221 | 4871 |
| NEW YORK KENNEDY | 0 | 0 | 37 | 232 | 526 | 917 | 1180 | 881 | 844 | 444 | 134 | 3 | 5198 | 5219 |
| NEW YORK LA GUARDIA | 0 | 0 | 49 | 272 | 562 | 959 | 1204 | 896 | 821 | 414 | 118 | 6 | 5301 | 4811 |
| ROCHESTER | 18 | 10 | 126 | 437 | 747 | 1231 | 1448 | 1149 | 1053 | 506 | 209 | 49 | 6973 | 6748 |
| SYRACUSE | 22 | 20 | 134 | 425 | 730 | 1269 | 1508 | 1139 | 1027 | 536 | 244 | 115 | 7169 | 6788 |
| NORTH CAROLINA | | | | | | | | | | | | | | |
| ASHEVILLE | 0 | 8 | 59 | 280 | 623 | 875 | 1050 | 720 | 557 | 216 | 86 | 3 | 4497 | 4466 |
| CAPE HATTERAS R | 0 | 0 | 1 | 51 | 390 | 581 | 842 | 573 | 472 | 167 | 44 | 0 | 3121 | 2612 |
| CHARLOTTE | 0 | 0 | 22 | 180 | 511 | 784 | 933 | 665 | 502 | 154 | 42 | 0 | 3793 | 3191 |
| GREENSBORO | 0 | 0 | 30 | 211 | 536 | 816 | 973 | 695 | 525 | 160 | 59 | 0 | 4005 | 3885 |
| RALEIGH | 0 | 0 | 45 | 222 | 561 | 841 | 980 | 725 | 576 | 200 | 74 | 0 | 4233 | 3393 |
| WILMINGTON | 0 | 0 | 1 | 83 | 376 | 614 | 793 | 539 | 348 | 113 | 16 | 0 | 2883 | 2347 |
| NORTH DAKOTA | | | | | | | | | | | | | | |
| BISMARCK | 6 | 3 | 149 | 748 | 967 | 1463 | 1892 | 1376 | 1423 | 758 | 931 | 34 | 9150 | 8951 |
| FARGO | 20 | 10 | 229 | 757 | 1028 | 1522 | 1996 | 1511 | 1431 | 773 | 407 | 55 | 9739 | 9226 |
| WILLISTON | 25 | 10 | 166 | 786 | 966 | 1431 | 1903 | 1340 | 1337 | 807 | 382 | 30 | 9183 | 9243 |
| OHIO | | | | | | | | | | | | | | |
| AKRON | 1 | 6 | 133 | 401 | 768 | 1172 | 1402 | 1073 | 972 | 458 | 161 | 33 | 6580 | 6037 |
| CINCINNATI OBS | 0 | 0 | 61 | 280 | 723 | 1066 | 1227 | 938 | 795 | 251 | 79 | 5 | 5434 | 4806 |
| CLEVELAND | 1 | 7 | 121 | 406 | 736 | 1166 | 1425 | 1052 | 960 | 462 | 154 | 30 | 6529 | 6194 |
| COLUMBUS | 0 | 2 | 107 | 369 | 763 | 1175 | 1369 | 1017 | 861 | 365 | 119 | 13 | 6150 | 5660 |
| DAYTON | 0 | 1 | 71 | 314 | 755 | 1115 | 1369 | 995 | 843 | 337 | 115 | 11 | 5926 | 5622 |
| MANSFIELD | 0 | 0 | 89 | 367 | 784 | 1204 | 1386 | 1043 | 940 | 444 | 159 | 27 | 6423 | 6403 |
| TOLEDO | 3 | 7 | 126 | 446 | 818 | 1213 | 1507 | 1130 | 1022 | 495 | 176 | 70 | 7013 | 6494 |
| YOUNGSTOWN | 13 | 17 | 167 | 440 | 803 | 1242 | 1457 | 1128 | 1036 | 509 | 180 | 77 | 7069 | 6417 |
| OKLAHOMA | | | | | | | | | | | | | | |
| OKLAHOMA CITY | 0 | 0 | 0 | 274 | 481 | 752 | 1022 | 620 | 615 | 187 | 31 | 12 | 3994 | 3725 |
| TULSA | 0 | 0 | 0 | 241 | 498 | 789 | 1088 | 642 | 625 | 174 | 26 | 18 | 4101 | 3860 |
| OREGON | | | | | | | | | | | | | | |
| ASTORIA | 193 | 188 | 226 | 423 | 551 | 677 | 710 | 518 | 617 | 584 | 416 | 250 | 5313 | 5146 |
| BURNS U | 29 | 38 | 182 | 697 | 836 | 1044 | 1085 | 782 | 852 | 809 | 386 | 158 | 6898 | 6957 |
| EUGENE | 17 | 44 | 134 | 440 | 576 | 673 | 692 | 568 | 557 | 534 | 272 | 75 | 4582 | 4726 |
| MEACHAM | 126 | 148 | 282 | 745 | 785 | 1061 | 1118 | 827 | 1010 | 934 | 539 | 244 | 7799 | 7874 |
| MEMPHORD | 0 | 0 | 9 | 471 | 691 | 780 | 983 | 549 | 558 | 227 | 68 | 68 | 4674 | 5008 |
| PENDLETON | 0 | 11 | 79 | 480 | 646 | 926 | 1007 | 707 | 660 | 448 | 228 | 83 | 5395 | 5127 |
| PORTLAND | 17 | 22 | 85 | 357 | 526 | 678 | 751 | 526 | 553 | 493 | 246 | 71 | 4325 | 4635 |
| SALEM | 45 | 70 | 137 | 459 | 621 | 710 | 719 | 555 | 596 | 571 | 329 | 94 | 4906 | 4754 |
| SEXTON SUMMIT R | 130 | 132 | 212 | 557 | 531 | 812 | 862 | 624 | 704 | 822 | 465 | 235 | 6178 | 6254 |
| PENNSYLVANIA | | | | | | | | | | | | | | |
| ALLENTOWN | 3 | 5 | 125 | 420 | 717 | 1179 | 1409 | 1012 | 940 | 490 | 169 | 35 | 6474 | 5810 |
| ERIE | 20 | 20 | 169 | 462 | 796 | 1211 | 1488 | 1169 | 1129 | 605 | 235 | 103 | 7407 | 6451 |
| HARRISBURG | 0 | 0 | 89 | 352 | 662 | 1036 | 1299 | 962 | 872 | 407 | 93 | 13 | 5785 | 5251 |
| PHILADELPHIA | 0 | 0 | 54 | 316 | 611 | 970 | 1247 | 890 | 821 | 399 | 92 | 0 | 5400 | 5101 |
| PITTSBURGH | 0 | 0 | 127 | 383 | 770 | 1183 | 1370 | 1039 | 908 | 390 | 127 | 31 | 6336 | 5987 |
| PITTSBURGH U | 0 | 0 | 84 | 322 | 709 | 1109 | 1290 | 963 | 870 | 357 | 107 | 12 | 5823 | 5291 |
| SCRANTON | 6 | 17 | 134 | 440 | 765 | 1212 | 1459 | 1094 | 1022 | 500 | 176 | 76 | 6899 | 6254 |
| WILLIAMSPORT | 2 | 5 | 106 | 412 | 690 | 1125 | 1433 | 1072 | 945 | 453 | 127 | 30 | 6400 | 5934 |
| RHODE ISLAND | | | | | | | | | | | | | | |
| BLOCK ISLAND | 5 | 3 | 74 | 319 | 568 | 943 | 1255 | 957 | 915 | 601 | 307 | 95 | 6042 | 5804 |
| PROVIDENCE | 2 | 4 | 119 | 365 | 673 | 1065 | 1399 | 996 | 924 | 409 | 214 | 60 | 6310 | 5954 |
| SOUTH CAROLINA | | | | | | | | | | | | | | |
| CHARLESTON | 0 | 0 | 1 | 50 | 349 | 567 | 735 | 454 | 249 | 82 | 9 | 0 | 2496 | 2033 |
| CHARLESTON U | 0 | 0 | 0 | 47 | 283 | 487 | 675 | 414 | 217 | 52 | 5 | 0 | 2180 | 1794 |
| COLUMBIA | 0 | 0 | 2 | 46 | 419 | 640 | 823 | 484 | 252 | 73 | 12 | 0 | 2791 | 2484 |
| GRNVILLE SPRTNBRG | 0 | 0 | 19 | 165 | 481 | 725 | 910 | 600 | 408 | 104 | 28 | 0 | 3437 | 3044 |
| SOUTH DAKOTA | | | | | | | | | | | | | | |
| ABERDEEN | 7 | 4 | 126 | 688 | 935 | 1438 | 1954 | 1379 | 1294 | 704 | 266 | 43 | 8840 | 8473 |
| HURON | 0 | 6 | 118 | 684 | 899 | 1340 | 1814 | 1186 | 1158 | 635 | 225 | 40 | 8105 | 8223 |
| RAPID CITY | 0 | 0 | 62 | 750 | 781 | 1135 | 1461 | 950 | 1157 | 767 | 293 | 74 | 7430 | 7345 |
| SIOUX FALLS | 2 | 2 | 117 | 668 | 941 | 1404 | 1867 | 1274 | 1192 | 603 | 206 | 46 | 8322 | 7839 |
| TENNESSEE | | | | | | | | | | | | | | |
| BRISTOL | 0 | 0 | 49 | 293 | 702 | 940 | 1155 | 784 | 553 | 201 | 64 | 1 | 4744 | 4143 |
| CHATTANOOGA | 0 | 0 | 20 | 263 | 636 | 897 | 1017 | 729 | 556 | 194 | 47 | 1 | 4360 | 3254 |
| KNOXVILLE | 0 | 0 | 111 | 200 | 579 | 840 | 1063 | 712 | 496 | 139 | 45 | 0 | 4085 | 3494 |
| MEMPHIS | 0 | 0 | 0 | 151 | 473 | 768 | 917 | 648 | 500 | 97 | 20 | 0 | 3574 | 3232 |
| NASHVILLE | 0 | 0 | 10 | 201 | 451 | 854 | 1005 | 737 | 556 | 156 | 51 | 0 | 4121 | 3800 |
| OAK RIDGE R | 0 | 0 | 22 | 227 | 602 | 876 | 1088 | 751 | 550 | 172 | 52 | 2 | 4342 | 3817 |
| TEXAS | | | | | | | | | | | | | | |
| ABILENE | 0 | 0 | 0 | 192 | 350 | 528 | 748 | 449 | 422 | 92 | 31 | 1 | 2813 | 2624 |
| AMARILLO | 0 | 0 | 1 | 374 | 543 | 817 | 981 | 602 | 713 | 280 | 50 | 33 | 4394 | 3985 |
| AUSTIN | 0 | 0 | 0 | 69 | 253 | 339 | 653 | 330 | 309 | 47 | 1 | 0 | 2010 | 1711 |
| BROWNSVILLE | 0 | 0 | 0 | 0 | 92 | 69 | 256 | 72 | 76 | 4 | 1 | 0 | 570 | 600 |
| CORPUS CHRISTI | 0 | 0 | 0 | 10 | 160 | 152 | 442 | 168 | 166 | 29 | 2 | 0 | 1129 | 914 |
| DALLAS | 0 | 0 | 0 | 116 | 287 | 448 | 704 | 422 | 389 | 54 | 13 | 0 | 2433 | 2363 |
| DEL RIO | 0 | 0 | 0 | 62 | 273 | 330 | 551 | 277 | 247 | 40 | 7 | 0 | 1782 | 1504 |
| EL PASO | 0 | 0 | 0 | 62 | 271 | 504 | 556 | 348 | 286 | 94 | 33 | 0 | 2254 | 2700 |
| FORT WORTH | 0 | 0 | 0 | 116 | 304 | 463 | 754 | 455 | 404 | 63 | 21 | 1 | 2585 | 2405 |
| GALVESTON U | 0 | 0 | 0 | 9 | 127 | 180 | 490 | 244 | 185 | 25 | 3 | 0 | 1272 | 1235 |
| HOUSTON | 0 | 0 | 0 | 29 | 238 | 304 | 579 | 309 | 252 | 51 | 12 | 0 | 1774 | 1676 |
| LURBOCK | 0 | 0 | 0 | 312 | 486 | 673 | 866 | 539 | 477 | 198 | 47 | 21 | 3702 | 3578 |
| MIDLAND | 0 | 0 | 0 | 216 | 405 | 532 | 706 | 482 | 463 | 117 | 48 | 5 | 2994 | 2888 |
| PORT ARTHUR | 0 | 0 | 0 | 22 | 212 | 281 | 545 | 293 | 180 | 22 | 0 | 0 | 1558 | 1447 |
| SAN ANGELO | 0 | 0 | 0 | 122 | 335 | 441 | 654 | 391 | 376 | 92 | 44 | 0 | 2455 | 2255 |
| SAN ANTONIO | 0 | 0 | 0 | 52 | 253 | 290 | 509 | 282 | 266 | 45 | 0 | 0 | 1803 | 1546 |
| VICTORIA | 0 | 0 | 0 | 14 | 176 | 202 | 308 | 230 | 202 | 34 | 5 | 0 | 1150 | 1173 |
| WACO | 0 | 0 | 0 | 75 | 278 | 444 | 719 | 414 | 372 | 60 | 11 | 0 | 2373 | 2030 |

Data from airport unless otherwise specified.
U indicates Urban, R indicates Rural, sites.

MONTHLY AND SEASONAL HEATING DEGREE DAYS

(Base 65°F)

1969-1970

| State and Station | July | Aug. | Sept. | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | Total for Season | Normals July-June |
|-------------------|------|------|-------|------|------|------|------|------|------|------|-----|------|------------------|-------------------|
| TEXAS | | | | | | | | | | | | | | |
| WICHITA FALLS | 0 | 0 | 1 | 235 | 411 | 634 | 891 | 526 | 534 | 131 | 19 | 4 | 3386 | 2832 |
| UTAH | | | | | | | | | | | | | | |
| MILFORD | 0 | 0 | 32 | 637 | 863 | 1022 | 1047 | 755 | 861 | 689 | 244 | 86 | 6236 | 6497 |
| SALT LAKE CITY | 1 | 0 | 17 | 530 | 759 | 1003 | 935 | 681 | 754 | 619 | 218 | 69 | 5586 | 6052 |
| WENDOVER | 3 | 0 | 15 | 572 | 825 | 1077 | 1018 | 731 | 740 | 603 | 181 | 68 | 5833 | 5778 |
| VERMONT | | | | | | | | | | | | | | |
| BURLINGTON | 41 | 41 | 244 | 589 | 856 | 1434 | 1906 | 1342 | 1208 | 663 | 341 | 105 | 8770 | 8269 |
| VIRGINIA | | | | | | | | | | | | | | |
| LYNCHBURG | 0 | 0 | 58 | 294 | 612 | 954 | 1095 | 798 | 732 | 278 | 79 | 0 | 4900 | 4166 |
| NORFOLK | 0 | 0 | 8 | 131 | 469 | 741 | 960 | 714 | 622 | 263 | 57 | 0 | 3965 | 3421 |
| RICHMOND | 0 | 0 | 45 | 221 | 541 | 907 | 1076 | 778 | 677 | 231 | 51 | 0 | 4527 | 3865 |
| ROANOKE | 0 | 0 | 53 | 274 | 607 | 967 | 1087 | 783 | 691 | 269 | 66 | 2 | 4799 | 4150 |
| WALLOPS ISLAND | 0 | 0 | 23 | 215 | 548 | 854 | 1089 | 802 | 715 | 358 | 115 | 0 | 4719 | |
| WASHINGTON | | | | | | | | | | | | | | |
| OLYMPIA | 95 | 137 | 183 | 494 | 616 | 759 | 826 | 615 | 665 | 591 | 403 | 149 | 5533 | 5236 |
| QUILLAYUTE | 208 | 248 | 259 | 462 | 574 | 556 | 758 | 536 | 655 | 628 | 467 | 239 | 5690 | 5745 |
| SEATTLE TACOMA | 49 | 49 | 144 | 381 | 547 | 607 | 731 | 499 | 586 | 563 | 314 | 122 | 4592 | 5145 |
| SPOKANE | 40 | 44 | 192 | 655 | 855 | 1097 | 1208 | 797 | 859 | 694 | 305 | 101 | 6849 | 6655 |
| STAMPEDE PASS R | 328 | 360 | 446 | 791 | 927 | 1186 | 1263 | 928 | 1038 | 1015 | 717 | 360 | 9359 | 9283 |
| WALLA WALLA U | 0 | 6 | 53 | 436 | 607 | 888 | 925 | 637 | 593 | 501 | 147 | 56 | 4849 | 4805 |
| YAKIMA | 20 | 39 | 147 | 542 | 753 | 966 | 1127 | 693 | 655 | 556 | 200 | 54 | 5752 | 5941 |
| WEST VIRGINIA | | | | | | | | | | | | | | |
| BECKLEY | 0 | 4 | 166 | 400 | 804 | 1139 | 1269 | 938 | 798 | 351 | 150 | 38 | 6057 | 5390 |
| CHARLESTON | 0 | 0 | 95 | 352 | 703 | 1007 | 1125 | 801 | 666 | 239 | 82 | 1 | 5071 | 4476 |
| ELKINS | 0 | 8 | 160 | 462 | 828 | 1212 | 1390 | 986 | 892 | 456 | 182 | 65 | 6641 | 5675 |
| HUNTINGTON | 0 | 0 | 72 | 320 | 681 | 1057 | 1163 | 866 | 737 | 264 | 103 | 3 | 5266 | 4446 |
| PARKERSBURG U | 0 | 0 | 71 | 294 | 681 | 1068 | 1206 | 896 | 779 | 283 | 85 | 1 | 5364 | 4754 |
| WISCONSIN | | | | | | | | | | | | | | |
| GREEN BAY | 38 | 11 | 223 | 619 | 991 | 1362 | 1788 | 1381 | 1121 | 550 | 333 | 73 | 8490 | 8029 |
| LA CROSSE | 5 | 1 | 135 | 540 | 886 | 1315 | 1746 | 1236 | 1052 | 499 | 297 | 30 | 7652 | 7589 |
| MADISON | 13 | 9 | 202 | 579 | 951 | 1346 | 1705 | 1252 | 1044 | 521 | 244 | 73 | 7939 | 7863 |
| MILWAUKEE | 34 | 5 | 143 | 539 | 913 | 1228 | 1600 | 1180 | 1062 | 561 | 301 | 104 | 7670 | 7635 |
| WYOMING | | | | | | | | | | | | | | |
| CASPER | 3 | 3 | 71 | 834 | 914 | 1125 | 1289 | 897 | 1149 | 797 | 355 | 143 | 7580 | 7410 |
| CHEYENNE | 3 | 3 | 113 | 859 | 854 | 1038 | 1115 | 846 | 1113 | 811 | 326 | 168 | 7249 | 7278 |
| LANDER | 8 | 0 | 64 | 833 | 928 | 1212 | 1253 | 869 | 1087 | 842 | 323 | 136 | 7555 | 7870 |
| SHERIDAN | 20 | 6 | 151 | 811 | 918 | 1121 | 1414 | 944 | 1138 | 794 | 348 | 132 | 7797 | 7683 |

Data from airport unless otherwise specified. U indicates Urban, R indicates Rural, sites.

Note: "Heating Degree Days" has been discontinued in the June issues of this publication. Data which would usually be shown in that table for June are shown in the last three columns of the above Table.

COOLING DEGREE DAYS

(Base 65°F.)

JUNE 1970

| State and station | Current season | | State and station | Current season | | State and station | Current season | | State and station | Current season | |
|---------------------|----------------|-----------------------------------|---------------------|----------------|-----------------------------------|---------------------|----------------|-----------------------------------|-------------------|----------------|-----------------------------------|
| | This month | Period January through this month | | This month | Period January through this month | | This month | Period January through this month | | This month | Period January through this month |
| ALABAMA | | | HAWAII | | | NEBRASKA | | | SOUTH DAKOTA | | |
| BIRMINGHAM | 330 | 674 | HILO | 270 | 1363 | NORTH PLATTE | 155 | 207 | ABERDEEN | 141 | 155 |
| HUNTSVILLE | 274 | 538 | HONOLULU | 490 | 2294 | OMAHA | 286 | 490 | MURON | 143 | 161 |
| MOBILE | 467 | 1055 | KAHULUI | 407 | 1686 | SCOTTSBLUFF | 99 | 106 | RAPID CITY | 96 | 103 |
| MONTGOMERY | 366 | 761 | LIHUE | 412 | 1812 | VALENTINE | 181 | 230 | SIOUX FALLS | 172 | 232 |
| ALASKA | | | IDAHO | | | NEVADA | | | TENNESSEE | | |
| ANCHORAGE | 0 | 0 | BOISE | 201 | 225 | ELKO | 48 | 48 | BRISTOL | 220 | 354 |
| YAKUTAT | 0 | 0 | LEWISTON | 220 | 236 | ELY | 31 | 31 | CHATTANOOGA | 313 | 503 |
| ANNETTE | 0 | 0 | POCATELLO | 91 | 91 | LAS VEGAS | 560 | 915 | KNOXVILLE | 258 | 453 |
| BARROW | 0 | 0 | ILLINOIS | | | PENO | 100 | 106 | MEMPHIS | 375 | 733 |
| BARTER ISLAND | 0 | 0 | CAIRO U | 316 | 614 | WINNEMUCCA | 124 | 126 | NASHVILLE | 265 | 484 |
| BETHEL | 0 | 0 | CHICAGO O HARE | 183 | 287 | NEW HAMPSHIRE | | | OAK RIDGE R | 219 | 396 |
| BETTLES | 0 | 0 | CHICAGO MIDWAY | 221 | 357 | CONCORD | 58 | 86 | TEXAS | | |
| BIG DELTA | 0 | 0 | MOLINE | 198 | 349 | MT WASHINGTON OBS | 0 | 0 | ABILENE | 433 | 746 |
| COLD BAY | 0 | 0 | PEORIA | 178 | 301 | NEW JERSEY | | | AMARILLO | 327 | 517 |
| FAIRBANKS | 0 | 0 | ROCKFORD | 157 | 237 | ATLANTIC CITY | 136 | 199 | AUSTIN | 451 | 870 |
| GULKANA | 0 | 0 | SPRINGFIELD | 229 | 396 | ATLANTIC CITY U | 138 | 175 | BROWNSVILLE | 522 | 1441 |
| HOMER | 0 | 0 | INDIANA | | | NEWARK | 187 | 285 | CORPUS CHRISTI | 466 | 1157 |
| JUNEAU | 0 | 0 | EVANSVILLE | 220 | 432 | TRENTON U | 174 | 259 | DALLAS | 505 | 944 |
| KING SALMON | 0 | 0 | FORT WAYNE | 194 | 302 | NEW MEXICO | | | DEL RIO | 496 | 1000 |
| KOTZEBUE | 0 | 0 | INDIANAPOLIS | 213 | 361 | ALBUQUERQUE | 246 | 351 | EL PASO | 448 | 770 |
| MC GRATH | 0 | 0 | SOUTH BEND | 158 | 240 | CLAYTON | 162 | 198 | FORT WORTH | 433 | 789 |
| NOME | 0 | 0 | IOWA | | | ROSWELL | 303 | 458 | GALVESTON U | 488 | 957 |
| ST. PAUL ISLAND | 0 | 0 | BURLINGTON | 181 | 315 | NEW YORK | | | HOUSTON INTERCON | 409 | 863 |
| SHEMYA | 0 | 0 | DES MOINES | 238 | 400 | ALBANY | 107 | 155 | LUBBOCK | 348 | 526 |
| SUMMIT | 0 | 0 | DUBUQUE | 149 | 248 | BINGHAMTON | 66 | 95 | MIDLAND | 389 | 631 |
| TALKEETNA | 0 | 0 | SIOUX CITY | 237 | 391 | BUFFALO | 108 | 145 | PORT ARTHUR | 484 | 1056 |
| UNALAKLET | 0 | 0 | WATERLOO | 175 | 287 | NEW YORK U | 190 | 284 | SAN ANGELO | 422 | 819 |
| YAKUTAT | 0 | 0 | KANSAS | | | NEW YORK KENNEDY | 168 | 210 | SAN ANTONIO | 478 | 971 |
| ARIZONA | | | CONCORDIA | 277 | 454 | NEW YORK LA GUARDIA | 180 | 236 | VICTORIA | 458 | 1009 |
| FLAGSTAFF | 44 | 44 | DODGE CITY | 301 | 480 | ROCHESTER | 148 | 211 | WACO | 483 | 902 |
| PHOENIX | 700 | 1225 | GOODLAND | 202 | 261 | SYRACUSE | 74 | 104 | WICHITA FALLS | 452 | 774 |
| TUCSON | 561 | 924 | TOPEKA | 239 | 423 | NORTH CAROLINA | | | UTAH | | |
| WINSLOW | 225 | 278 | WICHITA | 315 | 528 | ASHEVILLE | 159 | 233 | MILFORD | 124 | 131 |
| YUMA | 653 | 1228 | KENTUCKY | | | CAPE HATTERAS R | 314 | 448 | SALT LAKE CITY | 152 | 184 |
| ARKANSAS | | | COVINGTON | 225 | 404 | CHARLOTTE | 289 | 484 | WENDOVER | 209 | 250 |
| FORT SMITH | 376 | 684 | LEXINGTON | 199 | 362 | GREENSBORO | 338 | 534 | VERMONT | | |
| LITTLE ROCK | 416 | 739 | LOUISVILLE | 244 | 427 | RALEIGH | 236 | 390 | BURLINGTON | 75 | 86 |
| CALIFORNIA | | | LOUISIANA | | | WILMINGTON | 343 | 638 | VIRGINIA | | |
| BAKERSFIELD | 466 | 790 | ALEXANDRIA | 393 | 796 | NORTH DAKOTA | | | LYNCHBURG | 249 | 382 |
| BISHOP | 201 | 261 | BATON ROUGE | 438 | 969 | BISMARCK | 109 | 114 | NORFOLK | 303 | 463 |
| BLUE CANYON | 108 | 119 | LAKE CHARLES | 464 | 975 | FARGO | 146 | 148 | RICHMOND | 328 | 548 |
| EUREKA U | 0 | 1 | NEW ORLEANS | 442 | 984 | WILLISTON | 123 | 126 | ROANOKE | 246 | 396 |
| FRESNO | 353 | 565 | SHREVEPORT | 420 | 831 | OHIO | | | WALLOPS ISLAND | 182 | 247 |
| LONG BEACH | 129 | 209 | MAINE | | | AKRON | 152 | 248 | WASHINGTON | | |
| LOS ANGELES | 38 | 75 | CARIBOU | 47 | 49 | CINCINNATI OBS | 225 | 415 | OLYMPIA | 29 | 29 |
| LOS ANGELES U | 155 | 306 | PORTLAND | 55 | 59 | CLEVELAND | 189 | 300 | QUILLAYUTE | 7 | 7 |
| MT SHASTA R | 113 | 115 | MARYLAND | | | COLUMBUS | 166 | 313 | SEATTLE TACOMA | 60 | 61 |
| OAKLAND | 0 | 28 | BALTIMORE | 246 | 384 | DAYTON | 234 | 381 | SPOKANE | 143 | 146 |
| RED BLUFF | 374 | 602 | MASSACHUSETTS | | | MANSFIELD | 181 | 269 | STAMPEDE PASS R | 9 | 9 |
| SACRAMENTO | 208 | 351 | BLUE HILL OBS R | 84 | 104 | TOLEDO | 142 | 223 | WALLA WALLA U | 254 | 277 |
| SANDBERG R | 180 | 219 | BOSTON | 118 | 143 | YOUNGSTOWN | 110 | 197 | YAKIMA | 174 | 180 |
| SAN DIEGO | 40 | 64 | WORCESTER | 70 | 86 | OKLAHOMA | | | WEST INDIES | | |
| SAN FRANCISCO | 3 | 37 | MICHIGAN | | | OKLAHOMA CITY | 357 | 574 | SAN JUAN P.R. | 506 | 2548 |
| SAN FRANCISCO U | 1 | 25 | ALPENA | 59 | 72 | TULSA | 382 | 641 | SWAN ISLAND | 521 | 2769 |
| SANTA MARIA | 1 | 22 | DETROIT | 188 | 277 | OREGON | | | WEST VIRGINIA | | |
| STOCKTON | 253 | 421 | DETROIT METRO | 161 | 228 | ASTORIA | 7 | 7 | BECKLEY | 88 | 157 |
| COLORADO | | | FLINT | 108 | 161 | BURNS U | 105 | 105 | CHARLESTON | 251 | 438 |
| ALAMOSA | 18 | 18 | GRAND RAPIDS | 122 | 190 | EUGENE | 93 | 97 | ELKINS | 52 | 82 |
| COLORADO SPRINGS | 89 | 104 | HOUGHTON LAKE | 74 | 95 | MEACHAM | 81 | 81 | HUNTINGTON | 201 | 352 |
| DENVER | 93 | 109 | LANSING | 117 | 174 | MEDFORD | 185 | 200 | PARKERSBURG U | 219 | 400 |
| GRAND JUNCTION | 238 | 305 | MARQUETTE U | 66 | 72 | PENDLETON | 201 | 212 | WISCONSIN | | |
| PUEBLO | 271 | 373 | MUSKEGON | 121 | 183 | PORTLAND | 136 | 114 | GREEN BAY | 114 | 150 |
| CONNECTICUT | | | SAULT STE MARIE | 21 | 21 | SALEM | 82 | 84 | LA CROSSE | 208 | 312 |
| BRIDGEPORT | 96 | 106 | MINNESOTA | | | SEXTON SUMMIT R | 110 | 120 | MADISON | 125 | 184 |
| HARTFORD | 129 | 195 | DULUTH | 42 | 50 | PACIFIC AREA | | | MILWAUKEE | 119 | 152 |
| DELAWARE | | | INTERNATIONAL FALLS | 89 | 89 | GUAM TAGUAC R | 463 | 2519 | WYOMING | | |
| WILMINGTON | 211 | 310 | MINNEAPOLIS | 213 | 284 | JOHNSTON | 471 | 2516 | CASPER | 77 | 77 |
| DIST. OF COLUMBIA | | | ROCHESTER | 151 | 208 | KOROK R | 546 | 3144 | CHEYENNE | 52 | 54 |
| WASHINGTON DULLES | 143 | 236 | ST CLOUD | 159 | 183 | KWAJALEIN | 532 | 3291 | LANDER | 81 | 82 |
| WASHINGTON NATIONAL | 311 | 487 | MISSISSIPPI | | | MAJURO | 474 | 3044 | SHERIDAN | 55 | 56 |
| FLORIDA | | | JACKSON | 431 | 890 | PAGO PAGO | 456 | 2898 | | | |
| APALACHICOLA U | 464 | 1036 | MERIDIAN | 377 | 782 | PONAPE R | 477 | 3014 | | | |
| DAYTONA BEACH | 478 | 1206 | MISSOURI | | | TRUK MOEN ISLAND | 539 | 3109 | | | |
| FORT MYERS | 472 | 1245 | COLUMBIA REGIONAL | 217 | 377 | WAKE | 585 | 2958 | | | |
| JACKSONVILLE | 439 | 1078 | KANSAS CITY | 317 | 625 | YAP K | 512 | 3028 | | | |
| KEY WEST | 538 | 1849 | ST JOSEPH | 324 | 621 | PENNSYLVANIA | | | | | |
| LAKELAND U | 447 | 1177 | ST LOUIS | 247 | 496 | ALLENTOWN | 116 | 162 | | | |
| MIAMI | 518 | 1772 | SPRINGFIELD | 248 | 375 | ERIE | 76 | 117 | | | |
| ORLANDO | 511 | 1401 | MONTANA | | | HARRISBURG | 191 | 300 | | | |
| PENSACOLA | 474 | 1053 | BILLINGS | 115 | 125 | PHILADELPHIA | 204 | 307 | | | |
| TALLAHASSEE | 395 | 901 | GLASGOW | 128 | 131 | PITTSBURGH | 133 | 254 | | | |
| TAMPA | 464 | 1178 | GREAT FALLS | 144 | 148 | SCRANTON | 81 | 131 | | | |
| WEST PALM BEACH | 459 | 1433 | HAVRE | 114 | 114 | WILLIAMSPORT | 109 | 175 | | | |
| GEORGIA | | | HELENA | 76 | 76 | RHODE ISLAND | | | | | |
| ATHENS | 340 | 606 | KALISPELL | 57 | 57 | BLOCK ISLAND | 12 | 12 | | | |
| ATLANTA | 292 | 550 | MILES CITY | 176 | 192 | PROVIDENCE | 86 | 99 | | | |
| AUGUSTA | 352 | 649 | MISSOULA | 88 | 88 | SOUTH CAROLINA | | | | | |
| COLUMBUS | 378 | 803 | NEBRASKA | | | CHARLESTON | 410 | 798 | | | |
| MACON | 387 | 796 | GRAND ISLAND | 279 | 419 | CHARLESTON U | 437 | 862 | | | |
| ROME | 278 | 504 | LINCOLN U | 309 | 519 | COLUMBIA | 420 | 858 | | | |
| SAVANNAH | 403 | 858 | NORFOLK | 244 | 360 | GRNVILLE SPRTNBGR | 313 | 526 | | | |

Data from airport unless otherwise specified.
U indicates Urban, R indicates Rural, sites.

STORM SUMMARY

JUNE 1970

| STATE | TORNADOES | | | | | HAILSTORMS | | | | WINDSTORMS | | | | LIGHTNING | | | | # HEAVY SNOWSTORMS
AND BLIZZARDS | | | | # ICE STORMS | | | | Ø ALL OTHER | | | |
|-----------------|-----------|------|--------|----------|--------|------------|----------|---------------|-------|------------|----------|---------------|-------|-----------|----------|---------------|-------|-------------------------------------|----------|---------------|-------|--------------|----------|--------|---|-------------|----------|--------|---|
| | NUMBER | DAYS | DEATHS | INJURIES | DAMAGE | DEATHS | INJURIES | DAMAGE | | DEATHS | INJURIES | DAMAGE | | DEATHS | INJURIES | DAMAGE | | DEATHS | INJURIES | DAMAGE | | DEATHS | INJURIES | DAMAGE | | DEATHS | INJURIES | DAMAGE | |
| | | | | | | | | PROP.
ERTY | CROPS | | | PROP.
ERTY | CROPS | | | PROP.
ERTY | CROPS | | | PROP.
ERTY | CROPS | | | | | | | | |
| Alabama | 2 | 2 | 0 | 0 | 5 | 0 | 0 | 4 | 5 | 0 | 0 | 4 | 0 | 0 | 0 | 4 | 0 | | | | | | | | 0 | 0 | 6 | 6 | |
| Alaska* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Arizona* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Arkansas | 1 | 1 | 1 | 41 | 6 | 4 | 0 | 4 | 4 | 1 | 0 | 4 | 0 | 1 | 1 | 0 | 0 | | | | | | | | | | | | |
| California | 1 | 1 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | | | | | | | | | | | | | | | | |
| Colorado | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 4 | 5 | | | | | 1 | 1 | 3 | 0 | | | | | | | | | | | | |
| Connecticut | | | | | | | | | | | | | | 0 | 1 | 4 | 0 | | | | | | | | | | | | |
| Delaware | | | | | | | | | | 0 | 0 | 5 | 0 | | | | | | | | | | | | | | | | |
| Florida | 5 | 5 | 0 | 0 | 4 | 0 | 0 | 2 | 0 | 0 | 2 | 5 | 0 | 2 | 4 | 4 | 0 | | | | | | | | 0 | 0 | 6 | 6 | |
| Georgia | 1 | 1 | 0 | 0 | 4 | 0 | 0 | 4 | 4 | 0 | 0 | 4 | 0 | 0 | 0 | 4 | 0 | | | | | | | | | | | | |
| Hawaii* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Idaho | | | | | | 0 | 0 | 3 | 4 | 4 | 2 | 6 | 5 | 0 | 8 | 3 | 2 | | | | | | | | 2 | 0 | 3 | 3 | |
| Illinois | 7 | 3 | 0 | 0 | 5 | 0 | 0 | 2 | 2 | 0 | 1 | 5 | 2 | 1 | 0 | 2 | 0 | | | | | | | | | | | | |
| Indiana | 2 | 2 | 0 | 0 | 5 | 0 | 0 | 4 | 4 | 0 | 0 | 5 | 4 | | | | | | | | | | | | 1 | 0 | 3 | 3 | |
| Iowa | 3 | 3 | 0 | 0 | 4 | 0 | 0 | 4 | 5 | 0 | 4 | 5 | 4 | 0 | 3 | 5 | 0 | | | | | | | | 0 | 0 | 5 | 4 | |
| Kansas | 12 | 7 | 0 | 5 | 6 | 0 | 0 | 5 | 7 | 1 | 1 | 6 | 6 | 1 | 1 | 5 | 0 | | | | | | | | 0 | 0 | 5 | 5 | |
| Kentucky | 1 | 1 | 0 | 0 | 3 | 0 | 0 | 2 | 0 | 0 | 0 | 2 | 2 | 0 | 1 | 2 | 2 | | | | | | | | 0 | 0 | 2 | 2 | |
| Louisiana | 2 | 2 | 0 | 0 | 4 | 0 | 0 | 3 | 0 | | 0 | 4 | 0 | 0 | 1 | 3 | 0 | | | | | | | | | | | | |
| Maine | | | | | | | | | | 0 | 0 | 4 | 0 | 1 | 4 | 4 | 0 | | | | | | | | | | | | |
| Maryland | | | | | | 0 | 0 | 4 | C | 1 | 1 | 6 | 0 | 2 | 3 | 5 | 0 | | | | | | | | 0 | 0 | 5 | 0 | |
| Massachusetts | 1 | 1 | 0 | 0 | 5 | | | | | 0 | 0 | 5 | 0 | 0 | 2 | 4 | 0 | | | | | | | | | | | | |
| Michigan | | | | | | | | | | 0 | 0 | 4 | 5 | 0 | 1 | 1 | 6 | | | | | | | | | | | | |
| Minnesota | 3 | 2 | 0 | 0 | 5 | 0 | 0 | 2 | 6 | 1 | 2 | 5 | 2 | 0 | 0 | 4 | 0 | | | | | | | | 0 | 0 | 6 | 7 | |
| Mississippi | 3 | 3 | 0 | 0 | 2 | 0 | 0 | 3 | 5 | 0 | 2 | 5 | 0 | 1 | 0 | 2 | 0 | | | | | | | | 0 | 0 | 2 | 2 | |
| Missouri | 15 | 5 | 0 | 4 | 6 | 0 | 0 | 0 | 4 | 1 | 3 | 4 | 4 | 1 | 0 | 0 | 0 | | | | | | | | | | | | |
| Montana | | | | | | 0 | 0 | 4 | 6 | 0 | 0 | 6 | 4 | 1 | 0 | 0 | 0 | | | | | | | | 0 | 0 | 6 | 0 | |
| Nebraska | 8 | 5 | 0 | 0 | 5 | 0 | 0 | 5 | 7 | 0 | 1 | 5 | 0 | | | | | | | | | | | | | | | | |
| Nevada | | | | | | | | | | | | | | 0 | 0 | 5 | 0 | | | | | | | | | 1 | 1 | 0 | 0 |
| New Hampshire | | | | | | | | | | | | | | 0 | 0 | 4 | 0 | | | | | | | | | | | | |
| New Jersey* | | | | | | | | | | | | | | 0 | 0 | | | | | | | | | | | | | | |
| New Mexico | | | | | | | | | | 0 | 0 | 3 | 0 | 0 | 0 | 2 | 0 | | | | | | | | | | | | |
| New York | 1 | 1 | 1 | 1 | 5 | | | 3 | | | 3 | 6 | | 2 | 0 | 5 | 0 | | | | | | | | | | | | |
| North Carolina | | | | | | 0 | 0 | 4 | 5 | 0 | 0 | 5 | 0 | 3 | 3 | 5 | 0 | | | | | | | | | 0 | 0 | 5 | 0 |
| North Dakota | 5 | 4 | 0 | 2 | 4 | 0 | 0 | 3 | 4 | | | | | | | | | | | | | | | | | | | | |
| Ohio | 3 | 3 | 0 | 0 | 4 | 0 | 0 | 5 | C | 0 | 4 | 5 | | 2 | 4 | 6 | | | | | | | | | | 0 | 0 | 7 | |
| Oklahoma | @17 | 3 | 2 | 22 | 6 | 0 | 0 | 6 | 6 | 0 | 3 | 6 | 5 | 2 | 0 | 4 | 0 | | | | | | | | | 1 | 0 | 5 | 6 |
| Oregon | | | | | | | | | | 0 | 0 | 4 | 4 | 0 | 1 | 4 | 0 | | | | | | | | | 0 | 0 | 4 | 3 |
| Pacific Area* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pennsylvania | 2 | 1 | 1 | 5 | 6 | 0 | 0 | 5 | 4 | 0 | 3 | 6 | 4 | 6 | 3 | 6 | 4 | | | | | | | | | 0 | 3 | 6 | 5 |
| Puerto Rico | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 0 | 6 | C |
| Rhode Island* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| South Carolina | | | | | | 0 | 0 | 3 | 5 | 0 | 3 | 5 | 2 | | | | | | | | | | | | | | | | |
| South Dakota | 21 | 5 | 0 | 0 | 5 | 0 | 0 | 5 | 5 | 0 | 0 | 5 | 0 | | | | | | | | | | | | | | | | |
| Tennessee | 2 | 2 | 0 | 1 | 4 | 0 | 0 | 5 | 5 | 0 | 2 | 5 | C | 3 | 0 | 5 | 0 | | | | | | | | | 0 | 0 | 7 | C |
| Texas | 9 | 8 | 1 | 16 | 5 | 0 | 0 | 5 | 5 | 0 | 0 | 4 | 0 | | | | | | | | | | | | | | | | |
| Utah | 3 | 3 | 0 | 0 | 3 | 0 | 0 | 0 | 4 | 0 | 13 | 5 | 3 | 0 | 0 | 3 | 0 | | | | | | | | | 0 | 0 | 4 | 3 |
| Vermont | | | | | | | | | | 0 | 0 | 4 | 0 | 0 | 0 | 3 | 0 | | | | | | | | | | | | |
| Virgin Islands* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Virginia | 2 | 1 | 0 | 0 | 5 | 0 | 0 | 0 | 2 | 1 | 5 | 5 | 0 | 0 | 2 | 4 | 0 | | | | | | | | | 0 | 0 | 4 | 0 |
| Washington | 1 | 1 | 0 | 0 | 0 | | | | | | | | | | | | | | | | | | | | | | | | |
| West Virginia | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 4 | 4 | 0 | 0 | 4 | 0 | 0 | 2 | 3 | 0 | | | | | | | | | 0 | 0 | 4 | 3 |
| Wisconsin | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 6 | 6 | 1 | 5 | 6 | 0 | 0 | 1 | 5 | 0 | | | | | | | | | 0 | 0 | 5 | 4 |
| Wyoming | | | | | | | | | | 0 | 0 | 5 | C | 0 | 3 | 3 | 0 | | | | | | | | | 0 | 0 | 6 | C |

* Includes crop damage

C Crop damage

* No occurrence of storms or unusual weather phenomena reported.

‡ Includes heavy sleet storm.

Freezing drizzle and freezing rain, commonly known as glaze.

Ø For breakdown of "All Others", and for detailed listing of other storms.

see the NOAA Environmental Data Service, monthly publication STORM DATA.

@ Includes one tornado which crossed into Arkansas on June 11, 1970.

† Storm damages are placed in categories varying from 1 to 9 as follows:

1 Less than \$50

2 \$50 to \$500

3 \$500 to \$5,000

4 \$5,000 to \$50,000

5 \$50,000 to \$500,000

6 \$500,000 to \$5,000,000

7 \$5,000,000 to \$50,000,000

8 \$50,000,000 to \$500,000,000

9 \$500,000,000 to \$5,000,000,000

GENERAL SUMMARY OF RIVER AND FLOOD CONDITIONS

JUNE 1970

Elmer R. Nelson, Office of Hydrology

The worst flood since May 1950 occurred in northeastern Minnesota along the Little Fork River at Cook, Minn., from June 10 through June 15. The Little Fork River drains northwestward through Cook into the Rainy River southwest of International Falls, Minn., along the Canadian border. This serious flooding was due to rainfall of nearly 7 inches during a 36-hour period beginning the evening of June 9. Eighty percent of the village was inundated. The area was declared a disaster area by the U. S. Small Business Administration as 10 businesses and 15 homes sustained major damage and 20 businesses and 65 dwellings had lesser damage. Total damage was estimated at \$350,000.

Moderate to severe flooding occurred on the lower Choctawhatchee and Yellow Rivers in Florida and on the Conecuh River in Alabama during June. The flooding on the Yellow River was the most severe on record. Heavy flooding occurred in the upper Smoky Hill Basin in Kansas. The crest at Ellsworth, Kans., was the highest since 1951. Heavy damages resulted from the flooding in the Red River of the North Basin in northwestern Minnesota.

HUDSON BAY DRAINAGE

Red River of the North Basin--Flash flooding occurred on a number of tributaries in the Red River of the North Basin during June. Much of the countryside near Calvin, N. Dak., was inundated under 2 to 3 feet of water from heavy rains totalling 12 inches in less than 6 hours on the 11th. Many homes were flooded.

Other heavy rains of lesser magnitude caused rapid rises and overflows of short duration along the Snake, Wild Rice, and Red Lake Rivers in Minnesota and on the Maple River in North Dakota. Many smaller streams rose out of their banks.

The most extensive flooding occurred in northwestern Minnesota near and along the Two Rivers River system where streams, already high and slow to recede from the flooding in April and May, were further aggravated by additional rainfall. The losses to property, roads, bridges, crops and farmlands were heavy, qualifying several counties for disaster relief.

The flooding on the Maple River at Enderlin, N. Dak., on June 15-17 was minor in comparison to the flooding during May and early June when it crested more than 5 feet above flood stage.

The Wild Rice River at Hendrum, Minn., crested nearly 7.5 feet above flood stage on June 22. Considerable damage resulted to farm crops. The Snake River at Warren, Minn., crested more than 4 feet above flood stage on June 18.

Locally heavy rains during June prolonged the flooding along the Souris River in North Dakota. Flooding continued near Bantry, N. Dak., and Westhope, N. Dak., from early in May to July 3 and July 9, respectively.

ST. LAWRENCE DRAINAGE

Lake Erie--Heavy rains caused flash flooding on Blue Creek, a tributary of the St. Marys River, at Berne, Ind., on the 15th. Some agricultural damage resulted.

EAST GULF OF MEXICO DRAINAGE

Moderate to severe flooding occurred on the lower Choctawhatchee and Yellow Rivers in Florida and on the Conecuh River in Alabama during the first part of June. The flooding on the Yellow River was the most severe of record. It exceeded the previous record crest of 15.1 feet

recorded in December 1953 by 0.4 feet but was much below the pre-record crest of 26.2 feet established in March 1929. Evacuation of several houses was necessary. The most severe damage resulted from local flooding in northwest Florida in the Pensacola area and on the Blackwater River above Milton. The most extensive damage reported was to agriculture in the Conecuh Basin.

This moderate to severe flooding was due to accumulated rainfall totalling as much as 17 inches at Wallace, Ala., on June 1-4. The rainfall averaged more than 12 inches over much of the Conecuh and Yellow River basins. In the Choctawhatchee Basin, the total rainfall during the first 4 days of June ranged from about 3 inches over the headwaters to 8 inches over the lower basin. Most of the rainfall occurred less than 24-hours. Antecedent rains during the last 3 days of May set the stage for the moderate to severe flooding on these streams.

MISSISSIPPI SYSTEM

Upper Mississippi Basin--The Cuivre River, which has been in flood several times this year, rose above flood stage again during June at Troy and Old Monroe, Mo. Overflows of 4 to 8 feet were common along the Cuivre River with considerable damage occurring to farm crops.

Considerable flooding continued along the Illinois River during June from La Salle, Ill., downstream to its mouth. It was still above flood stage at Havana and Beardstown, Ill., at the close of the month. Since the river had been above flood stage for several months prior to June, little additional flood damage resulted.

Extensive flooding occurred along the upper Kaskaskia River in the area around Vandalia, Ill., from the heavy rains on June 12-15. The crest on the 16th was nearly 9.5 feet above flood stage. Minor flooding occurred along the Sangamon River, a tributary of the Illinois River. The Big Muddy River at Murphysboro, Ill., continued in flood from the 4th through the 28th. The crests on the 10th and 12th averaged slightly higher than 4 feet above flood stage. Minor flooding occurred on the Spoon River at Seville, Ill., on the 4-6th.

The lower reach of the Mississippi River in Illinois rose out of its banks on the 2d-10th and again on the 14-17th. The flooding was minor.

Missouri Basin--Flooding from snowmelt runoff and moderate precipitation continued along the East Gallatin, West Gallatin, and Madison Rivers in Montana early in June. The streams rose as much as an additional foot at several points during the first week of the month. Highest levels in the last 30 years were observed at some points. The heaviest damage reported was in the Madison Valley where about 1.5 miles of U. S. Highway 287 below Quake Lake were washed out. Other damage, in some cases quite extensive, was reported to general property, roads and farmland.

Little or no damage resulted from the flooding of the Boulder River at Big Timber, Mont., on the 7-9th and 24-30th. The crests on the 9th and 28th averaged 0.5 foot above flood stage. Some minor overflow occurred on the Yellowstone River near Billings, Mont., and on the Shoshone River in north central Wyoming.

Flash flooding resulted on numerous creeks in the northern portion of the Black Hills of South Dakota and Wyoming from heavy thunderstorms on the 12th. Unofficial reports of 4 to 6 inches of rain were recorded. Due to the terrain, the rises and falls were quite rapid and only minor inconveniences resulted to residents of

GENERAL SUMMARY OF RIVER AND FLOOD CONDITIONS-Continued

JUNE 1970

the area. Some roads were blocked by mud slides. Highway 34 west of Sturgis, S. Dak., was under water for a brief period.

Heavy rains on the 11-12th in the North Platte Basin between Casper and Douglas, Wyo., resulted in heavy flow along the main stem and into Glendo and Guernsey reservoirs. Flooding between Casper and Glendo, Wyo., including tributaries, resulted in approximately \$2 million damage. Heavy rainfall downstream to Scottsbluff, Nebr., plus discharge from Glendo and Guernsey reservoirs caused high water along the main stem, flooding some lowlands. No major damage resulted.

Heavy rains during the evening of the 10th caused minor flooding along smaller streams in the north portion of the Elkhorn Basin in Nebraska. Locally heavy rains over the upper and middle Platte Basin caused the Platte River to rise to bankfull stage near Grand Island, Nebr., on the 28-29th.

Heavy rains on the 11-13th and 15-16th caused 1 to 2 feet of flooding on the Little Platte River at Smithville, Mo. The Platte River at Edgerton, Mo., was bankfull and backing into fields and low areas during the morning of the 17th. On the morning of the 18th, the Platte River was out of its banks at Platte City, Mo., and flowing into lowlands.

Localized excessive rains on the 11-12th caused the South Fork of Sappa Creek near Achilles, Kans., to reach the highest stage since 1957. The excessive rains on the 18-19th caused heavy flooding along Prairie Dog Creek above Norton Reservoir, Kans., on the 19th.

Unusually heavy flooding occurred in the upper Smoky Hill Basin in Kansas between Kanopolis and Cedar Bluff Reservoirs, following 5 to 8 inch rains during the night of the 13th. At Ellsworth, Kans., the crest of 22.1 feet on the 16th (flood stage, 20 feet) was the highest stage recorded since 1951. The damages were estimated at \$150,000.

Repeated rains caused four light to moderate floods during the first half of the month on the Black Vermillion River at Frankfort, Kans. The most serious flooding occurred on June 1 with a crest 7.5 feet above flood stage. This was 1.5 feet less than the severe flood on May 10. Locally heavy rains on the 11-12th caused a 2-foot overflow on the Big Blue River at Blue Rapids, Kans.

Light overflows occurred on most of the smaller tributaries in the Kansas River Basin on the 3d and 4th.

Heavy rains on the 11-12th caused 2.5 to 5 foot overflows on the Blue River at Kansas City and on the Little Blue River near Lake City, Mo., on the 12-14th. The Blackwater River at Valley City, Mo., exceeded flood stage for the 3d time during the month on the 11th.

Heavy rains during the first 4 days of the month produced 4 to 6 foot overflows along the lower Marais des Cygnes River from 4 to 6 days. Farther upstream overflows were brief and minor. Subsequent 1.5 to 2.5 inch rains on the 12th resulted in 2 to 3 foot overflows for about 3 days below Osawatomie, Kans. Flood damages were due primarily to growing crops with estimates of around \$800,000 along the Marais des Cygnes.

Moderate flooding occurred along the Osage River and its tributaries in southwestern Missouri during most of June. However, flood crests were not as extreme this month as compared to the floods earlier this spring.

Minor flooding occurred along the lower Missouri River on the 4-8th and on the 14-17th. No damages were reported.

Ohio Basin--Heavy rains caused flash flooding in the Loyalhanna Creek Basin in the central portion of western Pennsylvania on the morning of the 16th. An unofficial report of 12.5 inches of rain was observed at Thomas Mills, Pa. Several stations reported amounts of 4 to 6 inches. More than \$250,000 damage occurred at Latrobe, Pa., when Sulphur Run and Unity Run overflowed from the heavy rains. Some damage occurred at Ligonier and Derry, Pa. Approximately 20 privately owned bridges were washed out in Johnstown, Pa., area.

Heavy thundershowers during the evening of the 11th, caused Buffalo Creek, about 5 1/2 miles northeast of Huntington Airport, W. Va., to overflow. The creek was out of its banks for about 2 1/2 miles. Many gardens were destroyed. Some damage resulted to small driveway bridges and the highway.

Heavy rain on the 15-16th caused minor flooding on the Embarrass River at Lawrenceville, Ill. The rainfall totaled more than 2.5 inches above Lawrenceville. No damage was reported.

Moderate to locally heavy rains over the Little Wabash Basin in Illinois during the first week in June caused minor flooding at Wayne City on the 5-7th. Heavier rains of 3 to 6 inches on the 15-16th caused considerable overflow of farmland near Wilcox, Ill., and overflow for the second time during June at Wayne City. Moderate damage occurred to growing crops.

Moderate to heavy rains (3 inches) over the Harpeth Valley in Tennessee early on the 21st caused heavy crop damage to a small truck farm. Elsewhere the damage was mostly light. The Harpeth River rose to flood stage at Kingston Springs, Tenn., on the morning of the 21st and crested 4.4 feet above flood stage during the early afternoon.

White Basin--Rains of 1 to 2 inches over the Cache Basin on the 24-25th caused a slow rise to flood stage at Patterson, Ark., on the June 29. The river remained at flood stage until July 2. No overflow or flood damage resulted.

Arkansas Basin--Rains averaging about 3 inches on the 2d-3d produced 1 1/2 to 2 feet of overflow along Bird Creek below Avant, Okla. This flood was comparatively minor compared to the flooding during the previous month. This same storm produced a 2 foot overflow on the Neosho River at Commerce, Okla., between the 4th and 6th.

The heaviest flood-producing storm of the month occurred on the 11th in north central Oklahoma and south central Kansas. Two heavy rain centers of 5.5 inches and 6.75 inches occurred at Harper, Kans., and Manchester, Okla. The Chikaskia River at Corbin, Kans., crested more than 2 feet above flood stage on the 12th. The Little Caney River crested about one foot above flood stage at Copan, Okla., on the same date.

Flooding on the Cottonwood River in Kansas on the 19th to the 22d was due to heavy rain on the 19th. Rainfall amounts ranged from 2.5 to 3.75 inches with unofficial reports of up to 6 inches. The flooding on the Neosho River on the 19th to the 23d was minor and confined principally to the Neosho County area in Kansas.

Red Basin--Minor flooding occurred during the middle of June on the Clear Boggy and Muddy Boggy Rivers in extreme southeastern Oklahoma. This flooding was due to heavy rain ranging from 5 to 11 inches. No flood damages were reported.

GENERAL SUMMARY OF RIVER AND FLOOD CONDITIONS-Continued

JUNE 1970

WEST GULF OF MEXICO DRAINAGE

Minor flooding occurred on the Sabine River in north-east Texas on the 2d-5th. The crest at Mineola, Tex., was about 1.5 feet above flood stage on the 3d.

Minor flooding occurred on the East Fork at Crandall, Tex., and on the Trinity River at Dallas, Tex., on May 31 to June 2. This overflow was due to rainfall ranging from 2 to 4 inches on May 30.

Minor flooding continued on the Navidad River at Ganado, Tex., from May 23 to June 1. The crest on May 26 was nearly 6 feet above flood stage. The Lavaca River rose briefly 0.5 feet above flood stage on June 1. Flooding was restricted to lowlands along both rivers. There was no reportable damage.

Considerable flooding occurred on the Atascosa River at Whitsett, Tex., on May 28 to June 3. The crest on June 1 was nearly 11 feet above flood stage. Flood waters on the middle and lower Atascosa River and the middle Nueces River continued to move downstream and cause further rises in the lower Nueces during the first part of June. Heavy flow from the rains of late May in the San Miguel Creek drainage produced brief moderate flooding on the lower Frio River at Calliham, Tex., on June 1-5. Moderate rains, up to about 1.5 inches on June 1, contributed to the flooding in the lower Nueces. Considerable flooding occurred below Corpus Christi from about the 4th through the 8th. Heavy rains, up to 5 to 6 inches near the Texas coast on the afternoon of the 24th, caused considerable street and highway flooding, closing briefly some of the major traffic arteries in the Corpus Christi area.

Heavy rain occurred during the night of the 29th and the morning of the 30th in the Rio Grande Basin from Presidio, Tex., to the Big Bend National Park on June 30

to July 1.

GREAT BASIN

Heavy rains in the Cedar City, Utah, area on the 7th caused high flow from Cross Hollow Hills, a small drainage west of the city. Several sheep were drowned.

Heavy rains on the 11th caused a flash flood below Anabella Dam, Utah. The heavy rains produced an opening through the earth filled dam backing up Annabella Lake. Water and mud from the dam and other areas of Cottonwood Canyon inundated farmland below the dam and above the town of Annabella. The damage was estimated at \$35,000.

Local flooding occurred in Ogden, Utah, and vicinity from excessive rain ranging up to 2.5 inches on the 10th. Streets were sandbagged.

PACIFIC SLOPE DRAINAGE

Columbia Basin--The only stream to exceed flood stage in the Columbia Basin during June was Henrys Fork at Rexburg, Idaho. It was above flood stage on June 1-20 and June 25-July 1. The higher crest occurred on the 11th and was about 1.5 feet above flood stage. Ten lives were lost during the month by drownings. Two of these were traffic accidents. The other eight were boating and river floating mishaps.

The highest stage reached on the Columbia River at Vancouver, Wash., this flood season was 14.0 feet (flood stage, 16 feet) on May 29. The highest stage reached during June was 13.5 feet on the 3d. By the end of June, the river had receded to 7.5 feet. The average stage at Vancouver for June was 11.1 feet compared to the long term normal June stage of 17.5 feet.

FLOOD STAGE DATA

All dates in June unless otherwise specified

JUNE 1970

| River and station | Flood stage | Above flood stages -dates | | Crest * | | River and station | Flood stage | Above flood stages -dates | | Crest * | |
|---|-------------|---------------------------|--------|---------|---------|--|-------------|---------------------------|--------|---------|-----------|
| | | From- | To- | Stage | Date | | | From- | To- | Stage | Date |
| <u>RED RIVER OF THE NORTH BASIN</u> | | | | | | <u>MISSISSIPPI SYSTEM</u> | | | | | |
| Wild Rice: Hendrum, Minn. | T 15 | 17 | 23 | 22.4 | 22 | Soldier Creek: Delia(6SE), Kans. | 17 | 3 | 4 | 20.6 | 3 |
| Warrior: Emburyville, N. Dak. | T 6 | May 28 | 2 | 11.1 | May 29 | Topeka(4NW),Kans. | 12 | 3 | 4 | 13.6 | 4 |
| | | 15 | 17 | 6.2 | 15 | Wakarusa: Lawrence(4S), Kans. | 23 | 3 | 4 | 27.8 | 4 |
| Red Lake: Crookston, Minn. | 15 | 18 | 19 | 16.5 | 18 | Stranger Creek: Easton, Kans. | 15 | 3 | 4 | 16.3 | 4 |
| Snake: Warren, Minn. | 1844 | 16 | 20 | 848.1 | 18 | Tonganoxie,Kans. | 22 | 3 | 5 | 23.1 | 2 |
| Two Rivers: Hallock, Minn. | 802 | Apr. 17 | 26 | 807.8 | 2 | Blue: Kansas City, Mo. | 22 | 12 | 12 | 24.6 | 12 |
| Souris: Foxholm(3E), N. Dak. | I 18 | Apr. 30 | Jun. 9 | 14.5 | May 24 | Little Blue: Lake City(nr), Mo. | 18 | 12 | 14 | 23.1 | 14 |
| Bantry(8E), N. Dak. | T 11 | May 6 | Jul. 3 | 13.2 | May 22 | Moreau: Jefferson City, Mo. | 20 | 13 | 15 | 27.5 | 14 |
| Westhope(7NNE), N. Dak. | T 10 | May 3 | Jul. 9 | 13.4 | 6 | Pottawatomie Creek: Garnett(4N), Kans. | 26 | 3 | 3 | 29.2 | 3 |
| <u>EAST GULF OF MEXICO DRAINAGE</u> | | | | | | | 19 | 20 | 27.7 | 20 | |
| Chickasaw: Carroll, Ala. | 12 | 6 | 10 | 13.5 | 7 | Lane, Kans. | 23 | 3 | 5 | 27.7 | 4 |
| Yellow: Milligan, Fla. | 12 | 5 | 7 | 15.5 | 6 | | | 20 | 21 | 24.5 | 21 |
| Conecuh: River Falls, Ala. | 37 | 4 | 4 | 39.0 | 4 | Marmaton: Nevada, Mo. | 22 | 3 | 7 | 23.8 | 5 |
| | | 7 | 7 | 37.5 | 7 | | | 20 | 22 | 23.3 | 21 |
| Brewton, Ala. | 17 | 5 | 11 | 18.7 | 9 | Little Osage: Horton, Mo. | 23 | 3 | 8 | 26.7 | 6 |
| <u>MISSISSIPPI SYSTEM</u> | | | | | | | 14 | 24 | 26.7 | 16 | |
| <u>Upper Mississippi Basin</u> | | | | | | | | | 26.3 | 22 | |
| Cuivre: Troy, Mo. | E 21 | 1 | 15 | 29.0 | 14 | Big Creek: Blairstown, Mo. | 20 | 2 | 4 | 21.5 | 3 |
| Old Monroe, Mo. | 24 | 2 | 5 | 28.25 | 3 | | | 13 | 14 | 21.9 | 13 |
| | | 13 | 16 | 29.3 | 14 | South Grand: Ulrich, Mo. | 22 | 2 | 4 | 23.3 | 2 |
| Spoon: Seville, Ill. | 22 | 4 | 6 | 23.5 | 4 | | | 12 | 14 | 22.8 | 13 |
| Sangamon: Riverton, Ill. | 18 | 17 | 24 | 22.9 | 19 | Brownington, Mo. | 19 | 3 | 8 | 21.45 | 4 |
| Petersburg, Ill. | 497 | 19 | 23 | 498.8 | 21 | | | 17 | 20 | 29.8 | 18 |
| Oakford, Ill. | 471 | 21 | 23 | 471.0 | 22 | Marais Des Cygnes: Reading(nr), Kans. | 18 | 3 | 3 | 21.0 | 2 |
| Illinois: LaSalle, Ill. | 20 | May 14 | 9 | 30.25 | May 16 | | | 12 | 12 | 21.0 | 12 |
| | | 16 | 19 | 29.7 | 16 | Melvern,Kans. | 23 | 3 | 5 | 24.8 | 3 |
| | | 21 | 24 | 21.5 | 22 | Quenemo,Kans. | 28 | 3 | 4 | #31.75 | 4 |
| Peoria, Ill. | 18 | May 14 | 13 | 25.9 | May 19 | Ottawa, Kans. | 27 | 4 | 5 | 27.7 | 4 |
| | | 15 | 27 | 20.7 | Jun. 4 | Osawatomie, Kans. | 28 | 3 | 7 | 34.2 | 5 |
| | | | | 19.0 | Jun. 23 | Lacygne,Kans. | 25 | 3 | 9 | 29.8 | 4 |
| Havana, Ill. | 14 | Apr. 10 | 1 | 22.15 | May 21 | | | | | 29.85 | 7 |
| | | | | 19.2 | 6-7 | Trading Post, Kans. | 24 | 3 | 9 | 27.3 | 4 |
| Beardstown, Ill. | 14 | Apr. 18 | 1 | 23.7 | May 21 | | | 13 | 16 | 26.7 | 8 |
| | | | | 21.1 | 5 | | | | | 26.3 | 14 |
| Meredosia, Ill. | 10 | Apr. 12 | 13 | 18.8 | Apr. 30 | Kansas-Missouri State Line | 25 | 2 | 10 | 29.5 | 4 |
| | | | | 22.6 | May 22 | | | 13 | 16 | 28.2 | 14 |
| Kaskaskia: Vandalia, Ill. | 18 | 15 | 20 | 27.35 | 16 | Osage: Schell City, Mo. | 25 | 2 | 26 | 30.85 | 7 |
| Big Muddy: Murphysboro, Ill. | 16 | 4 | 28 | 20.2 | 10 | Missouri: Lexington, Mo. | 22 | 4 | 5 | 23.4 | 5 |
| | | | | 20.3 | 22 | Waverly, Mo. | 18 | 4 | 6 | 20.1 | 5 |
| Mississippi: Grafton, Ill. | 18 | 2 | 10 | 19.5 | 7 | | | 17 | 17 | 18.6 | 17 |
| | | 14 | 17 | 18.5 | 15 | Hermann, Mo. | 21 | 5 | 8 | 23.2 | 6 |
| Alton, Ill. | 21 | 3 | 9 | 22.5 | 7 | | | (14 | 17 | | 15 |
| | | 15 | 17 | 21.4 | 16 | St. Charles, Mo. | 25 | 6 | 8 | 25.9 | 6 |
| Chester, Ill. | 27 | 6 | 9 | 27.8 | 8 | <u>Ohio Basin</u> | | | | | |
| <u>Missouri Basin</u> | | | | | | Embarrass: Lawrenceville, Ill. | T 11 | 17 | 18 | 12.1 | 17 |
| Boulder: Big Timber, Mont. | 7 | 7 | 9 | 7.4 | 9 | Little Wabash: Wilcox, Ill. | 16 | 17 | 23 | 20.45 | 21 |
| | | 24 | 30 | 7.6 | 28 | Wayne City, Ill. | 15 | 5 | 7 | 18.1 | 6 |
| Little Platte: Smithville, Mo. | 24 | 12 | 13 | 25.3 | 12 | | | 15 | 18 | 18.8 | 17 |
| | | 17 | 17 | 26.3 | 17 | Harpeth: Kingston Springs, Tenn. | 15 | 21 | 22 | 19.4 | 21 |
| South Fork Sappa Creek: Achilles(nr), Kans. | 0 | 0 | 0 | 9.65 | 11 | <u>White Basin</u> | | | | | |
| Republican: Stratton, Nebr. | 8 | 19 | 19 | 8.3 | 19 | Cache: Patterson, Ark. | 7 | 29 | Jul. 2 | 7.0 | 29-Jul. 2 |
| Smoky Hill: Schoenchen, Kans. | T 8 | 11 | 14 | 16.2 | 14 | <u>Arkansas Basin</u> | | | | | |
| Pfeifer(1ENE), Kans. | 15 | 13 | 14 | 19.3 | 14 | Chickasaw: Corbin, Kans. | 10 | 12 | 13 | 12.2 | 12 |
| Russell(8S), Kans. | 22 | 14 | 15 | 23.3 | 14 | Little Caney: Copan, Okla. | 21 | 12 | 13 | 12.7 | 12 |
| Ellsworth, Kans. | 20 | 15 | 16 | 22.1 | 16 | Bird Creek: Sperry, Okla. | 21 | 3 | 4 | 22.5 | 3 |
| Black Vermillion: Frankfort, Kans. | 19 | May 31 | 1 | 26.5 | 1 | Owasso, Okla. | 24 | 3 | 4 | 26.6 | 3 |
| | | 4 | 4 | 22.1 | 4 | Cottonwood: Plymouth(1SW), Kans. | 28 | 19 | 22 | 33.3 | 20 |
| | | 12 | 12 | 23.7 | 12 | Emporia(1S), Kans. | 20 | 20 | 22 | 21.8 | 21 |
| | | 16 | 17 | 24.9 | 16 | Neosho: LeRoy, Kans. | 23 | 19 | 20 | 24.0 | 19 |
| Fancy Creek: Wrinkler, Kans. | 11 | 11 | 2 | 17.5 | 11 | Iola, Kans. | 20 | 19 | 21 | 23.7 | 21 |
| | | | | 16.1 | 12 | Chanute, Kans. | 24 | 19 | 21 | 27.2 | 21 |
| Big Blue: Blue Rapids, Kans. | 1101 | 11 | 11 | 1102.7 | 11 | Oswego, Kans. | 17 | 21 | 23 | 18.75 | 22 |
| Vermillion Creek: Wamego(11NE), Kans. | 24 | 3 | 4 | 25.5 | 11 | Commerce, Okla. | 15 | 4 | 6 | 17.1 | 3 |
| Mill Creek: Paxico, Kans. | 19 | 3 | 3 | 19.6 | 11 | | | 21 | 23 | 16.7 | 23 |

FLOOD STAGE DATA

All dates in italics unless otherwise specified

JUNE 1970

| River and station | Flood stage | Above flood stages
-dates | | Crest * | |
|---|-------------|------------------------------|-----|----------------------|----------|
| | | From- | To- | Stage | Date |
| MISSISSIPPI SYSTEM | | | | | |
| | <i>Ft</i> | | | <i>Ft</i> | |
| RED BASIN | | | | | |
| Clear Boggy: Ada, Okla. | 19 | 12 | 14 | 23.1 | 13 |
| Muddy Boggy: Pottaw, Okla. | 38 | 12 | 13 | 39.8 | 12 |
| WEST GULF OF MEXICO DRAINAGE | | | | | |
| Sabine: Mincoia, Tex. | 14 | 2 | 5 | 15.3 | 3 |
| East Fork: Crowlall, Tex. | 14 May | 31 | 2 | 15.0 | 1 |
| Trinity: Dallas, Tex. | 30 May | 31 | 1 | 31.1 Jun. | 1 |
| San Jacinto: Lake Houston, Tex. | 44 Apr | 9 | D | 45.3 Apr
45.3 May | 12
17 |
| Navaho: Sonado, Tex. | 21 May | 23 | 1 | 26.85 May | 26 |
| Lavaca: Edna, Tex. | 21 | 1 | 1 | 21.5 | 1 |
| Atascosa: Whitsett, Tex. | 20 May | 28 | 3 | 30.9 | 1 |
| Frio: Calliham, Tex. | 12 | 1 | 5 | 20.7 | 3 |
| WEST GULF OF MEXICO DRAINAGE | | | | | |
| | <i>Ft</i> | | | <i>Ft</i> | |
| Nueces: Tilden, Tex. | 11 May | 1 | 1 | 16.2 | 5 |
| Del Rio: Del Rio, Tex. | 21 May | 29 | 1 | 36.9 | 3 |
| Matamoros: Matamoros, Tex. | 11 May | 26 | 1 | 28.4 | 2 |
| Calallen, Tex. | 7 May | 28 | 1 | 9.2 | 7 |
| Rio Grande: Presidio, Tex. | 11 | 1 | 1 | 13.0 | 30 |
| PACIFIC SLOPE DRAINAGE | | | | | |
| Columbia basin | | | | | |
| Henry's Fork: Rexburg, Idaho | " | 1 | 29 | 10.4
9.3 | 11
30 |
| * Provisional | | | | | |
| # Highest stage observed | | | | | |
| D Continued at end of month | | | | | |
| D Data not available | | | | | |
| T Tentative | | | | | |
| Exceeded previous maximum stage of record | | | | | |

* Provisional
Highest stage observed
I Exceeded previous maximum stage of record
D Data not available
T Tentative
Exceeded previous maximum stage of record

RAWINSONDE DATA

Average monthly values

JUNE 1970

| ALBANY, N. Y.
1006 MB | | | | | | | | | | ALBUQUERQUE, N. MEX.
839 MB | | | | | | | | | | AMARILLO, TEXAS
891 MB | | | | | | | | | | ANCHORAGE, ALASKA
1007 MB | | | | | | | | | | ANNETTE, ALASKA
1013 MB | | | | | | | | | |
|-----------------------------------|----|---------|-------|-------|----|----|----|--------|-------|-----------------------------------|----|------|----|--------|-------|-------|----|------|----|-----------------------------------|-------|-------|----|-----|----|--------|-------|-------|----|-----------------------------------|----|--------|-------|-------|----|------|----|--------|-------|-----------------------------------|----|------|--|--|--|--|--|--|--|
| Standard pressure
surface (mb) | | | | | | | | | | Standard pressure
surface (mb) | | | | | | | | | | Standard pressure
surface (mb) | | | | | | | | | | Standard pressure
surface (mb) | | | | | | | | | | Standard pressure
surface (mb) | | | | | | | | | |
| No of observations | | | | | | | | | | No of observations | | | | | | | | | | No of observations | | | | | | | | | | No of observations | | | | | | | | | | No of observations | | | | | | | | | |
| Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | |
| Temperature | | | | | | | | | | Temperature | | | | | | | | | | Temperature | | | | | | | | | | Temperature | | | | | | | | | | Temperature | | | | | | | | | |
| Dew Point | | | | | | | | | | Dew Point | | | | | | | | | | Dew Point | | | | | | | | | | Dew Point | | | | | | | | | | Dew Point | | | | | | | | | |
| Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | |
| Speed | | | | | | | | | | Speed | | | | | | | | | | Speed | | | | | | | | | | Speed | | | | | | | | | | Speed | | | | | | | | | |
| Miles per hour | | | | | | | | | | Miles per hour | | | | | | | | | | Miles per hour | | | | | | | | | | Miles per hour | | | | | | | | | | Miles per hour | | | | | | | | | |
| SURFACE | 30 | 86 | 15.8 | 13.2 | 2 | 9 | 30 | 1.619 | 15.6 | 3.3 | 12 | 2.3 | 30 | 1.095 | 17.0 | 9.5 | 21 | 2.2 | 30 | 45 | 10.4 | 4.1 | 17 | 4.7 | 30 | 37 | 10.8 | 8.8 | 14 | 9 | 30 | 143 | 10.4 | 7.1 | 17 | 8 | 30 | 151 | 8.1 | 4.3 | 18 | 2.7 | | | | | | | |
| 1000 | 30 | 137 | 15.3 | 11.6 | 21 | 1 | 30 | 98 | | | | | 30 | 97 | | | | | 30 | 105 | | | 17 | 5.3 | 30 | 143 | 10.4 | 7.1 | 17 | 8 | 30 | 151 | 8.1 | 4.3 | 18 | 2.7 | 30 | 151 | 8.1 | 4.3 | 18 | 2.7 | | | | | | | |
| 950 | 30 | 566 | 14.7 | 8.4 | 28 | 3 | 30 | 547 | | | | | 30 | 542 | | | | | 30 | 530 | 7.8 | 1.0 | 17 | 6.2 | 30 | 147 | 8.1 | 4.3 | 18 | 4.6 | 30 | 147 | 8.1 | 4.3 | 18 | 4.6 | 30 | 147 | 8.1 | 4.3 | 18 | 4.6 | | | | | | | |
| 900 | 30 | 1.028 | 12.6 | 5.6 | 29 | 4 | 30 | 1.015 | | | | | 30 | 1.013 | | | | | 30 | 973 | 4.7 | -1.6 | 17 | 5.1 | 30 | 1.013 | 5.3 | 1.0 | 18 | 4.0 | 30 | 1.013 | 5.3 | 1.0 | 18 | 4.0 | 30 | 1.013 | 5.3 | 1.0 | 18 | 4.0 | | | | | | | |
| 850 | 30 | 1.506 | 10.0 | 2.7 | 28 | 6 | 30 | 1.512 | | | | | 30 | 1.502 | 18.6 | 7.8 | 24 | 3.7 | 30 | 1.437 | 1.5 | -2.0 | 16 | 3.7 | 30 | 1.478 | 2.9 | 1.4 | 18 | 4.6 | 30 | 1.478 | 2.9 | 1.4 | 18 | 4.6 | 30 | 1.478 | 2.9 | 1.4 | 18 | 4.6 | | | | | | | |
| 800 | 30 | 2.058 | 7.7 | -1.9 | 28 | 8 | 30 | 2.072 | | | | | 30 | 2.020 | 15.9 | 4.1 | 25 | 5.8 | 30 | 1.922 | -1.7 | -4.7 | 16 | 2.8 | 30 | 1.967 | 4.4 | -6.2 | 19 | 5.2 | 30 | 1.967 | 4.4 | -6.2 | 19 | 5.2 | 30 | 1.967 | 4.4 | -6.2 | 19 | 5.2 | | | | | | | |
| 750 | 30 | 2.536 | 5.6 | -6.3 | 28 | 8 | 30 | 2.574 | 12.8 | -2.3 | 25 | 4.9 | 30 | 2.560 | 12.1 | 1.2 | 26 | 5.6 | 30 | 2.432 | -4.7 | -7.9 | 15 | 2.3 | 30 | 2.482 | -2.0 | -10.2 | 20 | 4.9 | 30 | 2.482 | -2.0 | -10.2 | 20 | 4.9 | 30 | 2.482 | -2.0 | -10.2 | 20 | 4.9 | | | | | | | |
| 700 | 30 | 3.101 | 2.7 | -11.0 | 27 | 9 | 30 | 3.149 | 8.6 | -5.0 | 26 | 6.1 | 30 | 3.139 | 8.3 | -3.8 | 26 | 4.9 | 30 | 2.973 | -8.1 | -11.4 | 14 | 2.3 | 30 | 3.030 | -4.6 | -13.8 | 21 | 6.3 | 30 | 3.030 | -4.6 | -13.8 | 21 | 6.3 | 30 | 3.030 | -4.6 | -13.8 | 21 | 6.3 | | | | | | | |
| 650 | 30 | 3.692 | -2.2 | -15.2 | 27 | 10 | 30 | 3.743 | 4.1 | -8.1 | 27 | 7.6 | 30 | 3.741 | 3.7 | -8.5 | 27 | 4.6 | 30 | 3.543 | -11.6 | -16.3 | 15 | 1.7 | 30 | 3.605 | -7.5 | -18.2 | 22 | 8.0 | 30 | 3.605 | -7.5 | -18.2 | 22 | 8.0 | 30 | 3.605 | -7.5 | -18.2 | 22 | 8.0 | | | | | | | |
| 600 | 30 | 4.334 | -3.5 | -19.0 | 27 | 11 | 30 | 4.404 | -6.0 | -11.3 | 27 | 7.6 | 30 | 4.392 | -9.2 | -12.4 | 27 | 4.3 | 30 | 4.154 | -15.6 | -21.1 | 16 | 1.7 | 30 | 4.230 | -10.7 | -20.4 | 22 | 9.0 | 30 | 4.230 | -10.7 | -20.4 | 22 | 9.0 | 30 | 4.230 | -10.7 | -20.4 | 22 | 9.0 | | | | | | | |
| 550 | 30 | 5.008 | -7.5 | -21.9 | 27 | 11 | 30 | 5.087 | -5.4 | -16.2 | 27 | 8.2 | 30 | 5.071 | -5.8 | -16.6 | 27 | 5.0 | 30 | 4.803 | -19.9 | -26.8 | 15 | 1.3 | 30 | 4.886 | -14.3 | -23.2 | 22 | 9.6 | 30 | 4.886 | -14.3 | -23.2 | 22 | 9.6 | 30 | 4.886 | -14.3 | -23.2 | 22 | 9.6 | | | | | | | |
| 500 | 30 | 5.752 | -12.0 | -24.6 | 28 | 12 | 30 | 5.834 | -10.7 | -22.7 | 27 | 8.4 | 30 | 5.822 | -10.7 | -21.8 | 26 | 6.3 | 30 | 5.505 | -24.7 | -32.0 | 13 | 1.1 | 30 | 5.612 | -19.0 | -26.2 | 23 | 10.3 | 30 | 5.612 | -19.0 | -26.2 | 23 | 10.3 | 30 | 5.612 | -19.0 | -26.2 | 23 | 10.3 | | | | | | | |
| 450 | 30 | 6.561 | -17.5 | -32.2 | 27 | 12 | 30 | 6.634 | -15.8 | -28.9 | 26 | 9.1 | 30 | 6.619 | -15.7 | -28.2 | 26 | 8.2 | 30 | 6.261 | -30.2 | -38.4 | 18 | 0.5 | 30 | 6.382 | -24.1 | -32.0 | 23 | 11.5 | 30 | 6.382 | -24.1 | -32.0 | 23 | 11.5 | 30 | 6.382 | -24.1 | -32.0 | 23 | 11.5 | | | | | | | |
| 400 | 30 | 7.422 | -24.1 | -37.9 | 27 | 13 | 30 | 7.517 | -22.0 | -35.2 | 26 | 9.0 | 30 | 7.504 | -22.0 | -33.9 | 26 | 10.3 | 30 | 7.090 | -36.1 | -43.2 | 28 | 0.6 | 30 | 7.239 | -30.1 | -38.7 | 23 | 11.6 | 30 | 7.239 | -30.1 | -38.7 | 23 | 11.6 | 30 | 7.239 | -30.1 | -38.7 | 23 | 11.6 | | | | | | | |
| 350 | 30 | 8.381 | -31.4 | -44.0 | 27 | 14 | 30 | 8.485 | -29.4 | -42.0 | 27 | 10.1 | 30 | 8.472 | -29.3 | -40.6 | 27 | 12.1 | 30 | 8.005 | -42.3 | -48.2 | 29 | 1.8 | 30 | 8.177 | -37.0 | -42.7 | 23 | 13.4 | 30 | 8.177 | -37.0 | -42.7 | 23 | 13.4 | 30 | 8.177 | -37.0 | -42.7 | 23 | 13.4 | | | | | | | |
| 300 | 30 | 9.435 | -39.5 | -49.7 | 27 | 15 | 30 | 9.567 | -37.9 | -47.7 | 27 | 10.9 | 30 | 9.554 | -37.9 | -46.8 | 26 | 13.1 | 30 | 9.033 | -47.8 | | 29 | 2.6 | 30 | 9.228 | -44.1 | | 23 | 15.1 | 30 | 9.228 | -44.1 | | 23 | 15.1 | 30 | 9.228 | -44.1 | | 23 | 15.1 | | | | | | | |
| 250 | 30 | 10.678 | -48.3 | | 28 | 15 | 30 | 10.799 | -47.3 | | 27 | 14.1 | 30 | 10.785 | -47.5 | | 26 | 15.7 | 30 | 10.229 | -47.8 | | 26 | 5.1 | 30 | 10.438 | -47.8 | | 24 | 15.7 | 30 | 10.438 | -47.8 | | 24 | 15.7 | 30 | 10.438 | -47.8 | | 24 | 15.7 | | | | | | | |
| 200 | 30 | 12.119 | -56.0 | | 28 | 15 | 30 | 12.244 | -56.1 | | 27 | 14.7 | 30 | 12.229 | -56.4 | | 26 | 16.1 | 30 | 11.704 | -50.7 | | 23 | 4.3 | 30 | 11.888 | -51.1 | | 24 | 12.4 | 30 | 11.888 | -51.1 | | 24 | 12.4 | 30 | 11.888 | -51.1 | | 24 | 12.4 | | | | | | | |
| 150 | 30 | 13.932 | -58.6 | | 28 | 13 | 30 | 13.987 | -58.8 | | 26 | 13.1 | 30 | 13.959 | -58.3 | | 26 | 13.5 | 30 | 12.595 | -55.5 | | 22 | 4.2 | 30 | 12.760 | -50.0 | | 23 | 10.3 | 30 | 12.760 | -50.0 | | 23 | 10.3 | 30 | 12.760 | -50.0 | | 23 | 10.3 | | | | | | | |
| 125 | 30 | 15.077 | -58.3 | | 28 | 9 | 30 | 15.171 | -63.4 | | 26 | 8.8 | 30 | 15.150 | -64.0 | | 26 | 10.8 | 30 | 14.328 | -61.6 | | 22 | 4.3 | 30 | 13.768 | -49.8 | | 23 | 9.2 | 30 | 13.768 | -49.8 | | 23 | 9.2 | 30 | 13.768 | -49.8 | | 23 | 9.2 | | | | | | | |
| 100 | 30 | 16.475 | -59.3 | | 29 | 6 | 30 | 16.539 | -64.4 | | 26 | 3.6 | 30 | 16.515 | -64.5 | | 25 | 2.4 | 30 | 16.316 | -66.8 | | 20 | 3.4 | 30 | 16.413 | -51.2 | | 23 | 5.4 | 30 | 16.413 | -51.2 | | 23 | 5.4 | 30 | 16.413 | -51.2 | | 23 | 5.4 | | | | | | | |
| 75 | 30 | 17.876 | -58.2 | | 29 | 3 | 30 | 17.904 | -65.5 | | 27 | 1.2 | 30 | 17.878 | -65.5 | | 25 | 1.0 | 30 | 17.796 | -66.8 | | 17 | 2.9 | 30 | 17.868 | -51.9 | | 21 | 3.6 | 30 | 17.868 | -51.9 | | 21 | 3.6 | 30 | 17.868 | -51.9 | | 21 | 3.6 | | | | | | | |
| 50 | 30 | 19.8719 | -56.9 | | 34 | 2 | 30 | 19.871 | -56.9 | | 09 | 3.7 | 30 | 19.869 | -62.5 | | 08 | 4.6 | 30 | 19.860 | -67.0 | | 15 | 2.8 | 30 | 19.733 | -51.9 | | 19 | 2.1 | 30 | 19.733 | -51.9 | | 19 | 2.1 | 30 | 19.733 | -51.9 | | 19 | 2.1 | | | | | | | |
| 25 | 30 | 19.699 | -55.1 | | 02 | 1 | 30 | 19.699 | -55.1 | | 09 | 5.1 | 30 | 19.695 | -60.0 | | 08 | 6.1 | 30 | 19.701 | -67.1 | | 15 | 2.8 | 30 | 19.733 | -51.9 | | 19 | 2.1 | 30 | 19.733 | -51.9 | | 19 | 2.1 | 30 | 19.733 | -51.9 | | 19 | 2.1 | | | | | | | |
| 0 | 30 | 20.868 | -53.9 | | 08 | 2 | 30 | 20.868 | -53.9 | | 08 | 8.2 | 30 | 20.803 | -56.5 | | 08 | 7.6 | 30 | 20.905 | -67.0 | | 11 | 3.9 | 30 | 20.919 | -50.6 | | 10 | 3.2 | 30 | 20.919 | -50.6 | | 10 | 3.2 | 30 | 20.919 | -50.6 | | 10 | 3.2 | | | | | | | |
| 40 | 30 | 22.310 | -51.6 | | 09 | 3 | 30 | 22.271 | -53.6 | | 09 | 8.2 | 30 | 22.227 | -54.1 | | 09 | 8.9 | 30 | 22.374 | -66.5 | | 10 | 4.1 | 30 | 22.374 | -66.5 | | 09 | 4.5 | 30 | 22.374 | -66.5 | | 09 | 4.5 | 30 | 22.374 | -66.5 | | 09 | 4.5 | | | | | | | |
| 30 | 30 | 23.741 | -49.6 | | 09 | 4 | 30 | 23.684 | -51.6 | | 09 | 9.1 | 30 | 23.630 | -52.1 | | 09 | 9.8 | 30 | 23.777 | -67.6 | | 11 | 4.8 | 30 | 23.777 | -67.6 | | 10 | 4.1 | 30 | 23.777 | -67.6 | | 10 | 4.1 | 30 | 23.777 | -67.6 | | 10 | 4.1 | | | | | | | |
| 20 | 30 | 25.193 | -47.6 | | 09 | 5 | 30 | 25.136 | -49.6 | | 09 | 9.6 | 30 | 25.082 | -50.1 | | 09 | 10.3 | 30 | 25.229 | -68.1 | | 12 | 5.5 | 30 | 25.229 | -68.1 | | 11 | 4.8 | 30 | 25.229 | -68.1 | | 11 | 4.8 | 30 | 25.229 | -68.1 | | 11 | 4.8 | | | | | | | |
| 10 | 30 | 26.646 | -45.6 | | 09 | 6 | 30 | 26.589 | -47.6 | | 09 | 10.1 | 30 | 26.535 | -48.1 | | 09 | 10.8 | 30 | 26.682 | -69.1 | | 13 | 6.0 | 30 | 26.682 | -69.1 | | 12 | 5.3 | 30 | 26.682 | -69.1 | | 12 | 5.3 | 30 | 26.682 | -69.1 | | 12 | 5.3 | | | | | | | |
| 0 | 30 | 28.101 | -43.6 | | 08 | 6 | 30 | 28.044 | -45.6 | | 08 | 10.6 | 30 | 27.990 | -46.1 | | 08 | 11.3 | 30 | 28.137 | -70.1 | | 14 | 6.3 | 30 | 28.137 | -70.1 | | 13 | 5.6 | 30 | 28.137 | -70.1 | | 13 | 5.6 | 30 | 28.137 | -70.1 | | 13 | 5.6 | | | | | | | |
| 5 | 30 | 29.556 | -41.6 | | 08 | 7 | 30 | 29.500 | -43.6 | | 08 | 11.1 | 30 | 29.446 | -44.1 | | 08 | 11.8 | 30 | 29.593 | -71.1 | | 15 | 6.6 | 30 | 29.593 | -71.1 | | 14 | 5.9 | 30 | 29.593 | -71.1 | | 14 | 5.9 | 30 | 29.593 | -71.1 | | 14 | 5.9 | | | | | | | |
| 10 | 30 | 31.011 | -39.6 | | 08 | 7 | 30 | 30.954 | -41.6 | | 08 | 11.0 | 30 | 30.900 | -42.1 | | 08 | 11.7 | 30 | 31.047 | -72.1 | | 16 | 6.9 | 30 | 31.047 | -72.1 | | 15 | 6.2 | 30 | 31.047 | -72.1 | | 15 | 6.2 | 30 | 31.047 | -72.1 | | 15 | 6.2 | | | | | | | |
| 15 | 30 | 32.466 | -37.6 | | 08 | 8 | 30 | 32.410 | -39.6 | | 08 | 11.4 | 30 | 32.356 | -40.1 | | 08 | 12.1 | 30 | 32.503 | -73.1 | | 17 | 7.2 | 30 | 32.503 | -73.1 | | 16 | 6.5 | 30 | 32.503 | -73.1 | | 16 | 6.5 | 30 | 32.503 | -73.1 | | 16 | 6.5 | | | | | | | |
| 20 | 30 | 33.921 | -35.6 | | 08 | 8 | 30 | 33.865 | -37.6 | | 08 | 11.5 | 30 | 33.811 | -38.1 | | 08 | 12.2 | 30 | 33.958 | -74.1 | | 18 | 7.5 | 30 | 33.958 | -74.1 | | 17 | 6.8 | 30 | 33.958 | -74.1 | | 17 | 6.8 | 30 | 33.958 | -74.1 | | 17 | 6.8 | | | | | | | |
| 25 | 30 | 35.376 | -33.6 | | 08 | 9 | 30 | 35.320 | -35.6 | | 08 | 11.6 | 30 | 35.266 | -36.1 | | 08 | 12.3 | 30 | 35.413 | -75.1 | | 19 | 7.8 | 30 | 35.413 | -75.1 | | 18 | 7.1 | 30 | 35.413 | -75.1 | | 18 | 7 | | | | | | | | | | | | | |

RAWINSONDE DATA

Average monthly values

| CHARLESTON, S. C.
810 MB | | | | | | | | | | CHICAGO, ILL.
857 MB | | | | | | | | | | COLD BAY, ALASKA
1007 MB | | | | | | | | | | COLUMBIA, MO.
986 MB | | | | | | | | | | DEL RIO, TEXAS
976 MB | | | | | | | | | |
|-----------------------------------|--------------------|----------------|-------------|-----------|-----------|-------|--------------------|----------------|-------------|-------------------------|-----------|-------|--------------------|----------------|-------------|-----------|-----------|-------|--------------------|-----------------------------|-------------|-----------|-----------|-------|--------------------|----------------|-------------|-----------|-----------|-------------------------|--------------------|----------------|-------------|-----------|-----------|-------|--------------------|----------------|-------------|--------------------------|-----------|-------|--------------------|----------------|-------------|-----------|-----------|-------|--|
| Standard pressure
surface (mb) | No of observations | Dynamic height | Temperature | Dew Point | Direction | Speed | No of observations | Dynamic height | Temperature | Dew Point | Direction | Speed | No of observations | Dynamic height | Temperature | Dew Point | Direction | Speed | No of observations | Dynamic height | Temperature | Dew Point | Direction | Speed | No of observations | Dynamic height | Temperature | Dew Point | Direction | Speed | No of observations | Dynamic height | Temperature | Dew Point | Direction | Speed | No of observations | Dynamic height | Temperature | Dew Point | Direction | Speed | No of observations | Dynamic height | Temperature | Dew Point | Direction | Speed | |
| SURFACE | 30 | 13 | 21.3 | 18.7 | 30 | 4.3 | 30 | 1428 | 19.4 | 7.9 | 23 | 1.7 | 29 | 30 | 7.3 | 3.2 | 21 | 1.4 | 30 | 238 | 18.3 | 15.7 | 15 | 1.7 | 30 | 314 | 22.6 | 18.8 | 11 | 3.5 | 30 | 314 | 22.6 | 18.8 | 11 | 3.5 | 30 | 314 | 22.6 | 18.8 | 11 | 3.5 | 30 | 314 | 22.6 | 18.8 | 11 | 3.5 | |
| 1000 | 30 | 146 | 22.2 | 18.7 | 22 | 1.4 | 30 | 526 | 19.4 | 7.9 | 23 | 1.7 | 29 | 307 | 7.3 | 3.2 | 21 | 1.4 | 30 | 238 | 18.3 | 15.7 | 15 | 1.7 | 30 | 314 | 22.6 | 18.8 | 11 | 3.5 | 30 | 314 | 22.6 | 18.8 | 11 | 3.5 | 30 | 314 | 22.6 | 18.8 | 11 | 3.5 | 30 | 314 | 22.6 | 18.8 | 11 | 3.5 | |
| 950 | 30 | 591 | 20.9 | 14.8 | 25 | 2.4 | 30 | 998 | 19.4 | 7.9 | 23 | 1.7 | 29 | 904 | 7.3 | 3.2 | 21 | 1.4 | 30 | 238 | 18.3 | 15.7 | 15 | 1.7 | 30 | 314 | 22.6 | 18.8 | 11 | 3.5 | 30 | 314 | 22.6 | 18.8 | 11 | 3.5 | 30 | 314 | 22.6 | 18.8 | 11 | 3.5 | 30 | 314 | 22.6 | 18.8 | 11 | 3.5 | |
| 900 | 30 | 1,060 | 18.2 | 11.4 | 25 | 2.4 | 30 | 1,501 | 20.1 | 7.9 | 24 | 1.7 | 29 | 1,405 | 7.3 | 3.2 | 21 | 1.4 | 30 | 238 | 18.3 | 15.7 | 15 | 1.7 | 30 | 314 | 22.6 | 18.8 | 11 | 3.5 | 30 | 314 | 22.6 | 18.8 | 11 | 3.5 | 30 | 314 | 22.6 | 18.8 | 11 | 3.5 | 30 | 314 | 22.6 | 18.8 | 11 | 3.5 | |
| 850 | 30 | 1,548 | 15.1 | 7.9 | 24 | 2.1 | 30 | 2,023 | 18.7 | 4.8 | 20 | 1.7 | 29 | 2,398 | 15.0 | 2.0 | 20 | 1.7 | 30 | 238 | 18.3 | 15.7 | 15 | 1.7 | 30 | 314 | 22.6 | 18.8 | 11 | 3.5 | 30 | 314 | 22.6 | 18.8 | 11 | 3.5 | 30 | 314 | 22.6 | 18.8 | 11 | 3.5 | 30 | 314 | 22.6 | 18.8 | 11 | 3.5 | |
| 800 | 30 | 2,060 | 12.2 | 3.6 | 26 | 1.1 | 30 | 2,569 | 15.0 | 2.0 | 20 | 1.7 | 29 | 2,939 | 11.3 | 1.1 | 20 | 1.7 | 30 | 238 | 18.3 | 15.7 | 15 | 1.7 | 30 | 314 | 22.6 | 18.8 | 11 | 3.5 | 30 | 314 | 22.6 | 18.8 | 11 | 3.5 | 30 | 314 | 22.6 | 18.8 | 11 | 3.5 | 30 | 314 | 22.6 | 18.8 | 11 | 3.5 | |
| 750 | 30 | 2,594 | 9.4 | 1.3 | 28 | 5.5 | 30 | 3,154 | 11.3 | 1.1 | 27 | 1.1 | 29 | 3,509 | 10.8 | 1.7 | 17 | 1.7 | 30 | 238 | 18.3 | 15.7 | 15 | 1.7 | 30 | 314 | 22.6 | 18.8 | 11 | 3.5 | 30 | 314 | 22.6 | 18.8 | 11 | 3.5 | 30 | 314 | 22.6 | 18.8 | 11 | 3.5 | 30 | 314 | 22.6 | 18.8 | 11 | 3.5 | |
| 700 | 30 | 3,169 | 6.2 | 0.7 | 28 | 2.2 | 30 | 3,761 | 7.0 | 0.0 | 01 | 1.5 | 29 | 4,222 | 2.0 | 7.9 | 02 | 1.5 | 30 | 238 | 18.3 | 15.7 | 15 | 1.7 | 30 | 314 | 22.6 | 18.8 | 11 | 3.5 | 30 | 314 | 22.6 | 18.8 | 11 | 3.5 | 30 | 314 | 22.6 | 18.8 | 11 | 3.5 | 30 | 314 | 22.6 | 18.8 | 11 | 3.5 | |
| 650 | 30 | 3,770 | 3.1 | -11.4 | 28 | 2.2 | 30 | 4,422 | 2.0 | 7.9 | 02 | 1.5 | 29 | 4,774 | -10.2 | -25.7 | 24 | 2.2 | 30 | 238 | 18.3 | 15.7 | 15 | 1.7 | 30 | 314 | 22.6 | 18.8 | 11 | 3.5 | 30 | 314 | 22.6 | 18.8 | 11 | 3.5 | 30 | 314 | 22.6 | 18.8 | 11 | 3.5 | 30 | 314 | 22.6 | 18.8 | 11 | 3.5 | |
| 600 | 30 | 4,428 | -3.3 | -16.9 | 28 | 3.0 | 30 | 5,110 | -3.2 | -12.7 | 35 | 1.0 | 29 | 5,477 | -10.2 | -25.7 | 24 | 2.2 | 30 | 238 | 18.3 | 15.7 | 15 | 1.7 | 30 | 314 | 22.6 | 18.8 | 11 | 3.5 | 30 | 314 | 22.6 | 18.8 | 11 | 3.5 | 30 | 314 | 22.6 | 18.8 | 11 | 3.5 | 30 | 314 | 22.6 | 18.8 | 11 | 3.5 | |
| 550 | 30 | 5,104 | -6.5 | -20.2 | 28 | 3.6 | 30 | 5,866 | -3.2 | -12.7 | 35 | 1.0 | 29 | 6,240 | -13.0 | -27.4 | 28 | 3.6 | 30 | 238 | 18.3 | 15.7 | 15 | 1.7 | 30 | 314 | 22.6 | 18.8 | 11 | 3.5 | 30 | 314 | 22.6 | 18.8 | 11 | 3.5 | 30 | 314 | 22.6 | 18.8 | 11 | 3.5 | 30 | 314 | 22.6 | 18.8 | 11 | 3.5 | |
| 500 | 30 | 5,859 | -9.0 | -25.7 | 27 | 4.7 | 30 | 6,606 | -13.0 | -27.4 | 28 | 3.6 | 30 | 6,980 | -19.2 | -33.6 | 26 | 4.7 | 30 | 238 | 18.3 | 15.7 | 15 | 1.7 | 30 | 314 | 22.6 | 18.8 | 11 | 3.5 | 30 | 314 | 22.6 | 18.8 | 11 | 3.5 | 30 | 314 | 22.6 | 18.8 | 11 | 3.5 | 30 | 314 | 22.6 | 18.8 | 11 | 3.5 | |
| 450 | 30 | 6,606 | -16.4 | -28.9 | 28 | 5.5 | 30 | 7,450 | -19.2 | -33.6 | 26 | 4.7 | 30 | 7,824 | -27.0 | -37.0 | 26 | 4.7 | 30 | 238 | 18.3 | 15.7 | 15 | 1.7 | 30 | 314 | 22.6 | 18.8 | 11 | 3.5 | 30 | 314 | 22.6 | 18.8 | 11 | 3.5 | 30 | 314 | 22.6 | 18.8 | 11 | 3.5 | 30 | 314 | 22.6 | 18.8 | 11 | 3.5 | |
| 400 | 30 | 7,347 | -20.3 | -34.4 | 28 | 6.6 | 30 | 8,193 | -27.0 | -37.0 | 26 | 4.7 | 30 | 8,567 | -34.0 | -44.0 | 26 | 4.7 | 30 | 238 | 18.3 | 15.7 | 15 | 1.7 | 30 | 314 | 22.6 | 18.8 | 11 | 3.5 | 30 | 314 | 22.6 | 18.8 | 11 | 3.5 | 30 | 314 | 22.6 | 18.8 | 11 | 3.5 | 30 | 314 | 22.6 | 18.8 | 11 | 3.5 | |
| 350 | 30 | 8,522 | -27.6 | -40.9 | 29 | 6.6 | 30 | 9,393 | -35.3 | -46.0 | 28 | 8.0 | 30 | 9,767 | -42.0 | -52.0 | 28 | 8.0 | 30 | 238 | 18.3 | 15.7 | 15 | 1.7 | 30 | 314 | 22.6 | 18.8 | 11 | 3.5 | 30 | 314 | 22.6 | 18.8 | 11 | 3.5 | 30 | 314 | 22.6 | 18.8 | 11 | 3.5 | 30 | 314 | 22.6 | 18.8 | 11 | 3.5 | |
| 300 | 30 | 9,613 | -35.9 | -47.6 | 30 | 8.0 | 30 | 10,484 | -45.5 | -55.5 | 29 | 10.3 | 29 | 10,858 | -52.0 | -62.0 | 29 | 10.3 | 29 | 238 | 18.3 | 15.7 | 15 | 1.7 | 30 | 314 | 22.6 | 18.8 | 11 | 3.5 | 30 | 314 | 22.6 | 18.8 | 11 | 3.5 | 30 | 314 | 22.6 | 18.8 | 11 | 3.5 | 30 | 314 | 22.6 | 18.8 | 11 | 3.5 | |
| 250 | 30 | 10,858 | -45.5 | -55.5 | 30 | 8.0 | 30 | 12,343 | -55.1 | -65.1 | 27 | 14.6 | 28 | 12,718 | -62.0 | -72.0 | 27 | 14.6 | 28 | 238 | 18.3 | 15.7 | 15 | 1.7 | 30 | 314 | 22.6 | 18.8 | 11 | 3.5 | 30 | 314 | 22.6 | 18.8 | 11 | 3.5 | 30 | 314 | 22.6 | 18.8 | 11 | 3.5 | 30 | 314 | 22.6 | 18.8 | 11 | 3.5 | |
| 200 | 30 | 12,310 | -56.0 | -65.0 | 30 | 12.3 | 30 | 13,185 | -60.3 | -70.3 | 27 | 14.6 | 28 | 13,560 | -67.0 | -77.0 | 27 | 14.6 | 28 | 238 | 18.3 | 15.7 | 15 | 1.7 | 30 | 314 | 22.6 | 18.8 | 11 | 3.5 | 30 | 314 | 22.6 | 18.8 | 11 | 3.5 | 30 | 314 | 22.6 | 18.8 | 11 | 3.5 | 30 | 314 | 22.6 | 18.8 | 11 | 3.5 | |
| 150 | 30 | 13,149 | -61.1 | -70.1 | 31 | 11.2 | 30 | 14,024 | -65.9 | -75.9 | 27 | 14.6 | 28 | 14,399 | -72.0 | -82.0 | 27 | 14.6 | 28 | 238 | 18.3 | 15.7 | 15 | 1.7 | 30 | 314 | 22.6 | 18.8 | 11 | 3.5 | 30 | 314 | 22.6 | 18.8 | 11 | 3.5 | 30 | 314 | 22.6 | 18.8 | 11 | 3.5 | 30 | 314 | 22.6 | 18.8 | 11 | 3.5 | |
| 100 | 30 | 14,098 | -66.7 | -75.7 | 31 | 8.4 | 30 | 15,003 | -70.5 | -80.5 | 27 | 14.6 | 28 | 15,378 | -77.0 | -87.0 | 27 | 14.6 | 28 | 238 | 18.3 | 15.7 | 15 | 1.7 | 30 | 314 | 22.6 | 18.8 | 11 | 3.5 | 30 | 314 | 22.6 | 18.8 | 11 | 3.5 | 30 | 314 | 22.6 | 18.8 | 11 | 3.5 | 30 | 314 | 22.6 | 18.8 | 11 | 3.5 | |
| 50 | 30 | 16,566 | -75.1 | -84.1 | 33 | 4.6 | 30 | 17,504 | -80.5 | -90.5 | 26 | 2.8 | 28 | 17,879 | -87.0 | -97.0 | 26 | 2.8 | 28 | 238 | 18.3 | 15.7 | 15 | 1.7 | 30 | 314 | 22.6 | 18.8 | 11 | 3.5 | 30 | 314 | 22.6 | 18.8 | 11 | 3.5 | 30 | 314 | 22.6 | 18.8 | 11 | 3.5 | 30 | 314 | 22.6 | 18.8 | 11 | 3.5 | |
| 0 | 30 | 17,930 | -83.5 | -92.5 | 30 | 3.3 | 30 | 18,904 | -87.5 | -97.5 | 26 | 2.8 | 28 | 19,279 | -94.0 | -104.0 | 26 | 2.8 | 28 | 238 | 18.3 | 15.7 | 15 | 1.7 | 30 | 314 | 22.6 | 18.8 | 11 | 3.5 | 30 | 314 | 22.6 | 18.8 | 11 | 3.5 | 30 | 314 | 22.6 | 18.8 | 11 | 3.5 | 30 | 314 | 22.6 | 18.8 | 11 | 3.5 | |
| | 30 | 19,279 | -92.5 | -101.5 | 27 | 0.8 | 30 | 20,281 | -92.5 | -102.5 | 26 | 0.8 | 28 | 20,656 | -99.0 | -109.0 | 26 | 0.8 | 28 | 238 | 18.3 | 15.7 | 15 | 1.7 | 30 | 314 | 22.6 | 18.8 | 11 | 3.5 | 30 | 314 | 22.6 | 18.8 | 11 | 3.5 | 30 | 314 | 22.6 | 18.8 | 11 | 3.5 | 30 | 314 | 22.6 | 18.8 | 11 | 3.5 | |
| | 30 | 20,656 | -99.0 | -109.0 | 26 | 0.8 | 30 | 21,656 | -104.0 | -114.0 | 26 | 0.8 | 28 | 22,031 | -111.0 | -121.0 | 26 | 0.8 | 28 | 238 | 18.3 | 15.7 | 15 | 1.7 | 30 | 314 | 22.6 | 18.8 | 11 | 3.5 | 30 | 314 | 22.6 | 18.8 | 11 | 3.5 | 30 | 314 | 22.6 | 18.8 | 11 | 3.5 | 30 | 314 | 22.6 | 18.8 | 11 | 3.5 | |
| | 30 | 22,031 | -111.0 | -121.0 | 26 | 0.8 | 30 | 23,426 | -116.0 | -126.0 | 26 | 0.8 | 28 | 23,801 | -123.0 | -133.0 | 26 | 0.8 | 28 | 238 | 18.3 | 15.7 | 15 | 1.7 | 30 | 314 | 22.6 | 18.8 | 11 | 3.5 | 30 | 314 | 22.6 | 18.8 | 11 | 3.5 | 30 | 314 | 22.6 | 18.8 | 11 | 3.5 | 30 | 314 | 22.6 | 18.8 | 11 | 3.5 | |
| | 30 | 23,426 | -116.0 | -126.0 | 26 | 0.8 | 30 | 24,201 | -121.0 | -131.0 | 26 | 0.8 | 28 | 24,576 | -128.0 | -138.0 | 26 | 0.8 | 28 | 238 | 18.3 | 15.7 | 15 | 1.7 | 30 | 314 | 22.6 | 18.8 | 11 | 3.5 | 30 | 314 | 22.6 | 18.8 | 11 | 3.5 | 30 | 314 | 22.6 | 18.8 | 11 | 3.5 | 30 | 314 | 22.6 | 18.8 | 11 | 3.5 | |
| | 30 | 24,576 | -128.0 | -138.0 | 26 | 0.8 | 30 | 25,351 | -133.0 | -143.0 | 26 | 0.8 | 28 | 25,726 | -140.0 | -150.0 | 26 | 0.8 | 28 | 238 | 18.3 | 15.7 | 15 | 1.7 | 30 | 314 | 22.6 | 18.8 | 11 | 3.5 | 30 | 314 | 22.6 | 18.8 | 11 | 3.5 | 30 | 314 | 22.6 | 18.8 | 11 | 3.5 | 30 | 314 | 22.6 | 18.8 | 11 | 3.5 | |
| | 30 | 25,351 | -133.0 | -143.0 | 26 | 0.8 | 30 | 26,201 | -138.0 | -148.0 | 26 | 0.8 | 28 | 26,576 | -145.0 | -155.0 | 26 | 0.8 | 28 | 238 | 18.3 | 15.7 | 15 | 1.7 | 30 | 314 | 22.6 | 18.8 | 11 | 3.5 | 30 | 314 | 22.6 | 18.8 | 11 | 3.5 | 30 | 314 | 22.6 | 18.8 | 11 | 3.5 | 30 | 314 | 22.6 | 18.8 | 11 | 3.5 | |
| | 30 | 26,201 | -138.0 | -148.0 | 26 | 0.8 | 30 | 27,076 | -143.0 | -153.0 | 26 | 0.8 | 28</ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

RAWINSONDE DATA

Average monthly values

JUNE 1970

| DEER FALLS, MINN.
987 MB | | | | | | | | | | GREENSBORO, N. C.
970 MB | | | | | | | | | | GLAY, MARYLAND IS.
999 MB | | | | | | | | | | HILLY SPARTAN
999 MB | | | | | | | | | | HUNTINGTON W. VA.
998 MB | | | | | | | | | |
|---------------------------------|---------------------|----------------|-------------|-----------|-----------|-------|---------------------|----------------|-------------|-----------------------------|-----------|-------|---------------------|----------------|-------------|-----------|-----------|-------|---------------------|------------------------------|-------------|-----------|-----------|-------|---------------------|----------------|-------------|-----------|-----------|-------------------------|---------------------|----------------|-------------|-----------|-----------|-------|--|--|--|-----------------------------|--|--|--|--|--|--|--|--|--|
| Standard pressure
surface mb | No. of observations | Dynamic height | Temperature | Dew Point | Direction | Speed | No. of observations | Dynamic height | Temperature | Dew Point | Direction | Speed | No. of observations | Dynamic height | Temperature | Dew Point | Direction | Speed | No. of observations | Dynamic height | Temperature | Dew Point | Direction | Speed | No. of observations | Dynamic height | Temperature | Dew Point | Direction | Speed | No. of observations | Dynamic height | Temperature | Dew Point | Direction | Speed | | | | | | | | | | | | | |
| 5000 30 | 1 | 122.3 | 13.7 | 6.8 | 24 | 4.1 | 30 | 275 | 20.0 | 17.1 | 22 | 1.0 | 30 | 111 | 25.7 | 23.9 | 10 | 3.2 | 30 | 11 | 20.6 | 18.6 | 23 | 2.2 | 30 | 246 | 16.9 | 14.9 | 18 | 1.2 | 30 | 246 | 16.9 | 14.9 | 18 | 1.2 | | | | | | | | | | | | | |
| 1000 30 | 1 | 88 | 19.8 | 13.5 | 25 | 3.1 | 30 | 152 | 19.8 | 13.5 | 25 | 3.1 | 30 | 102 | 23.6 | 22.0 | 10 | 8.8 | 30 | 157 | 21.4 | 18.6 | 24 | 1.0 | 30 | 141 | 18.9 | 13.1 | 24 | 4.4 | 30 | 141 | 18.9 | 13.1 | 24 | 4.4 | | | | | | | | | | | | | |
| 500 30 | 1 | 59 | 19.8 | 13.5 | 25 | 3.1 | 30 | 109 | 19.8 | 13.5 | 25 | 3.1 | 30 | 553 | 23.6 | 22.0 | 10 | 8.8 | 30 | 597 | 18.3 | 16.3 | 09 | 2.9 | 30 | 583 | 18.9 | 13.1 | 24 | 4.4 | 30 | 583 | 18.9 | 13.1 | 24 | 4.4 | | | | | | | | | | | | | |
| 800 30 | 1 | 903 | 14.8 | 10.9 | 27 | 3.7 | 30 | 1040 | 17.4 | 10.9 | 27 | 3.7 | 30 | 1026 | 21.0 | 17.9 | 10 | 8.9 | 30 | 1063 | 15.0 | 13.9 | 08 | 3.7 | 30 | 1049 | 16.6 | 10.7 | 26 | 5.7 | 30 | 1049 | 16.6 | 10.7 | 26 | 5.7 | | | | | | | | | | | | | |
| 700 30 | 1 | 1475 | 14.8 | 10.9 | 27 | 3.7 | 30 | 1057 | 14.5 | 7.9 | 27 | 3.9 | 30 | 1521 | 18.3 | 14.1 | 10 | 8.0 | 30 | 1546 | 11.9 | 11.1 | 08 | 3.7 | 30 | 1531 | 13.6 | 7.3 | 26 | 6.1 | 30 | 1531 | 13.6 | 7.3 | 26 | 6.1 | | | | | | | | | | | | | |
| 600 30 | 1 | 1986 | 11.9 | 4.3 | 27 | 4.1 | 30 | 2057 | 11.5 | 4.3 | 27 | 4.1 | 30 | 2039 | 15.4 | 10.5 | 09 | 7.0 | 30 | 2053 | 10.6 | 8.8 | 09 | 4.9 | 30 | 2040 | 11.0 | 3.2 | 26 | 5.7 | 30 | 2040 | 11.0 | 3.2 | 26 | 5.7 | | | | | | | | | | | | | |
| 500 30 | 1 | 2524 | 8.3 | -2.1 | 28 | 4.5 | 30 | 2595 | 8.7 | -2.1 | 28 | 4.5 | 30 | 2585 | 12.5 | 5.7 | 09 | 6.7 | 30 | 2593 | 10.7 | -8.3 | 09 | 5.4 | 30 | 2577 | 8.0 | -2.2 | 27 | 5.8 | 30 | 2577 | 8.0 | -2.2 | 27 | 5.8 | | | | | | | | | | | | | |
| 400 30 | 1 | 3089 | 3.9 | -5.5 | 28 | 4.8 | 30 | 3163 | 5.6 | -6.1 | 28 | 4.8 | 30 | 3162 | 8.7 | 4.0 | 09 | 6.8 | 30 | 3164 | 8.9 | -11.0 | 10 | 4.5 | 30 | 3144 | 5.8 | -4.2 | 27 | 5.9 | 30 | 3144 | 5.8 | -4.2 | 27 | 5.9 | | | | | | | | | | | | | |
| 300 30 | 1 | 3687 | -0.9 | -9.3 | 26 | 4.9 | 30 | 3767 | -2.1 | -10.1 | 26 | 4.9 | 30 | 3773 | 6.4 | -5.9 | 09 | 6.6 | 30 | 3776 | 5.9 | -19.5 | 10 | 4.3 | 30 | 3744 | 1.8 | -9.8 | 28 | 6.6 | 30 | 3744 | 1.8 | -9.8 | 28 | 6.6 | | | | | | | | | | | | | |
| 200 30 | 1 | 4323 | -4.2 | -13.4 | 26 | 5.7 | 30 | 4408 | -1.5 | -15.0 | 26 | 5.7 | 30 | 4427 | 2.8 | -11.2 | 09 | 6.2 | 30 | 4424 | 2.0 | -17.2 | 10 | 4.8 | 30 | 4387 | -1.9 | -13.3 | 29 | 6.8 | 30 | 4387 | -1.9 | -13.3 | 29 | 6.8 | | | | | | | | | | | | | |
| 100 30 | 1 | 5000 | -8.5 | -19.3 | 26 | 7.0 | 30 | 5094 | -5.5 | -20.2 | 28 | 7.5 | 30 | 5122 | -1.3 | -15.0 | 09 | 6.6 | 30 | 5116 | -2.2 | -20.7 | 10 | 4.1 | 30 | 5070 | -5.9 | -19.5 | 29 | 6.7 | 30 | 5070 | -5.9 | -19.5 | 29 | 6.7 | | | | | | | | | | | | | |
| 0 30 | 1 | 5738 | -13.1 | -24.5 | 25 | 7.4 | 30 | 5839 | -10.0 | -25.4 | 28 | 7.7 | 30 | 5881 | -5.5 | -20.5 | 09 | 5.8 | 30 | 5872 | -7.1 | -24.4 | 11 | 3.0 | 30 | 5816 | -10.3 | -26.0 | 29 | 8.6 | 30 | 5816 | -10.3 | -26.0 | 29 | 8.6 | | | | | | | | | | | | | |
| 5000 30 | 1 | 6527 | -18.7 | -29.6 | 24 | 6.8 | 30 | 6642 | -15.3 | -30.6 | 28 | 8.2 | 30 | 6696 | -10.3 | -25.6 | 09 | 6.2 | 30 | 6681 | -13.1 | -29.9 | 11 | 3.1 | 30 | 6617 | -15.5 | -31.0 | 29 | 9.1 | 30 | 6617 | -15.5 | -31.0 | 29 | 9.1 | | | | | | | | | | | | | |
| 4000 30 | 1 | 7401 | -25.2 | -35.9 | 24 | 6.5 | 30 | 7523 | -21.5 | -35.7 | 29 | 8.5 | 30 | 7599 | -16.0 | -31.0 | 07 | 4.5 | 30 | 7573 | -19.7 | -35.7 | 12 | 2.2 | 30 | 7500 | -21.8 | -36.0 | 29 | 9.1 | 30 | 7500 | -21.8 | -36.0 | 29 | 9.1 | | | | | | | | | | | | | |
| 3000 30 | 1 | 8347 | -32.3 | -42.4 | 21 | 6.0 | 30 | 8494 | -28.6 | -42.0 | 29 | 8.8 | 30 | 8592 | -22.6 | -37.3 | 06 | 3.5 | 30 | 8549 | -27.4 | -41.7 | 14 | 1.3 | 30 | 8449 | -29.0 | -42.2 | 29 | 9.6 | 30 | 8449 | -29.0 | -42.2 | 29 | 9.6 | | | | | | | | | | | | | |
| 2000 30 | 1 | 9425 | -40.7 | -49.5 | 22 | 6.4 | 30 | 9579 | -37.0 | -48.5 | 29 | 9.3 | 30 | 9704 | -31.0 | -44.9 | 02 | 2.5 | 30 | 9641 | -35.7 | -49.8 | 25 | 1.8 | 30 | 9552 | -37.3 | -48.8 | 30 | 11.4 | 30 | 9552 | -37.3 | -48.8 | 30 | 11.4 | | | | | | | | | | | | | |
| 1000 30 | 1 | 10644 | -49.1 | -57.1 | 22 | 6.5 | 30 | 10815 | -46.6 | -57.0 | 29 | 11.2 | 30 | 10970 | -41.0 | -46.0 | 32 | 3.2 | 30 | 10884 | -45.3 | -57.3 | 25 | 4.3 | 30 | 10785 | -47.2 | -57.2 | 30 | 13.1 | 30 | 10785 | -47.2 | -57.2 | 30 | 13.1 | | | | | | | | | | | | | |
| 500 30 | 1 | 12084 | -55.4 | -65.7 | 24 | 7.2 | 30 | 12261 | -57.3 | -65.3 | 29 | 12.2 | 30 | 12447 | -53.3 | -60.5 | 28 | 6.2 | 30 | 12336 | -56.7 | -67.2 | 25 | 7.5 | 30 | 12226 | -57.4 | -67.4 | 29 | 15.9 | 30 | 12226 | -57.4 | -67.4 | 29 | 15.9 | | | | | | | | | | | | | |
| 0 30 | 1 | 12993 | -56.7 | -65.7 | 23 | 7.2 | 30 | 13076 | -61.3 | -67.5 | 29 | 12.9 | 30 | 13293 | -60.5 | -67.5 | 28 | 6.9 | 30 | 13171 | -62.7 | -67.3 | 26 | 9.5 | 30 | 13065 | -60.4 | -67.4 | 29 | 15.2 | 30 | 13065 | -60.4 | -67.4 | 29 | 15.2 | | | | | | | | | | | | | |
| 5000 30 | 1 | 13920 | -56.6 | -65.6 | 24 | 8.9 | 30 | 14047 | -63.3 | -67.9 | 29 | 10.9 | 30 | 14236 | -67.9 | -67.9 | 28 | 5.4 | 30 | 14111 | -71.3 | -67.3 | 26 | 9.0 | 30 | 14022 | -61.9 | -67.3 | 29 | 11.6 | 30 | 14022 | -61.9 | -67.3 | 29 | 11.6 | | | | | | | | | | | | | |
| 4000 30 | 1 | 15678 | -57.0 | -67.0 | 24 | 4.7 | 30 | 15145 | -63.7 | -67.7 | 29 | 9.0 | 30 | 15311 | -75.3 | -67.3 | 32 | 2.2 | 30 | 15199 | -71.0 | -67.0 | 26 | 5.6 | 30 | 15148 | -62.3 | -67.3 | 29 | 8.7 | 30 | 15148 | -62.3 | -67.3 | 29 | 8.7 | | | | | | | | | | | | | |
| 3000 30 | 1 | 16486 | -58.1 | -67.1 | 24 | 2.4 | 30 | 16533 | -63.8 | -67.1 | 31 | 4.1 | 30 | 16590 | -78.7 | -67.7 | 38 | 5.1 | 30 | 16516 | -71.5 | -67.5 | 24 | 8.9 | 30 | 16528 | -62.4 | -67.4 | 32 | 5.1 | 30 | 16528 | -62.4 | -67.4 | 32 | 5.1 | | | | | | | | | | | | | |
| 2000 30 | 1 | 17891 | -57.8 | -67.8 | 09 | 2.2 | 30 | 17906 | -62.1 | -67.1 | 30 | 2.4 | 30 | 17871 | -74.6 | -67.6 | 09 | 8.5 | 30 | 17836 | -70.3 | -67.3 | 09 | 5.5 | 30 | 17907 | -60.9 | -67.9 | 01 | 2.9 | 30 | 17907 | -60.9 | -67.9 | 01 | 2.9 | | | | | | | | | | | | | |
| 1000 30 | 1 | 18736 | -56.8 | -67.8 | 06 | 1.6 | 30 | 18735 | -60.0 | -67.0 | 27 | 7.2 | 30 | 18654 | -71.1 | -67.1 | 08 | 10.4 | 30 | 18631 | -68.4 | -68.4 | 09 | 8.5 | 30 | 18739 | -59.5 | -67.5 | 04 | 2.6 | 30 | 18739 | -59.5 | -67.5 | 04 | 2.6 | | | | | | | | | | | | | |
| 500 30 | 1 | 19716 | -55.2 | -65.2 | 06 | 2.8 | 30 | 19759 | -58.2 | -67.2 | 28 | 4.7 | 30 | 19776 | -66.9 | -67.9 | 09 | 13.2 | 30 | 19753 | -65.4 | -67.4 | 09 | 11.3 | 30 | 19770 | -62.9 | -67.9 | 06 | 3.7 | 30 | 19770 | -62.9 | -67.9 | 06 | 3.7 | | | | | | | | | | | | | |
| 0 30 | 1 | 20880 | -53.9 | -63.9 | 09 | 4.2 | 30 | 20852 | -64.9 | -67.9 | 08 | 6.0 | 30 | 20868 | -62.8 | -67.8 | 09 | 1.5 | 30 | 20860 | -67.0 | -67.0 | 09 | 14.1 | 30 | 20867 | -64.9 | -67.9 | 08 | 3.4 | 30 | 20867 | -64.9 | -67.9 | 08 | 3.4 | | | | | | | | | | | | | |
| 5000 30 | 1 | 22319 | -52.1 | -62.1 | 08 | 5.3 | 30 | 22268 | -57.2 | -67.2 | 09 | 7.3 | 30 | 22075 | -58.4 | -67.4 | 09 | 20.6 | 30 | 22071 | -58.2 | -67.2 | 09 | 16.9 | 30 | 22301 | -52.4 | -67.4 | 08 | 8.4 | 30 | 22301 | -52.4 | -67.4 | 08 | 8.4 | | | | | | | | | | | | | |
| 4000 30 | 1 | 24190 | -50.1 | -60.1 | 08 | 7.1 | 30 | 24161 | -50.2 | -60.2 | 09 | 8.3 | 30 | 23902 | -54.2 | -67.2 | 09 | 25.7 | 30 | 23897 | -54.5 | -67.5 | 09 | 19.7 | 30 | 24172 | -49.9 | -67.9 | 08 | 6.8 | 30 | 24172 | -49.9 | -67.9 | 08 | 6.8 | | | | | | | | | | | | | |
| 3000 30 | 1 | 25388 | -48.5 | -58.5 | 08 | 7.5 | 30 | 25357 | -48.1 | -58.1 | 09 | 9.2 | 30 | 25080 | -51.0 | -67.0 | 09 | 27.4 | 30 | 25072 | -52.2 | -67.2 | 09 | 22.2 | 30 | 25370 | -48.1 | -67.1 | 09 | 7.0 | 30 | 25370 | -48.1 | -67.1 | 09 | 7.0 | | | | | | | | | | | | | |
| 2000 30 | 1 | 26862 | -46.5 | -56.5 | 09 | 8.7 | 30 | 26842 | -45.9 | -55.9 | 09 | 9.3 | 30 | 26543 | -47.7 | -67.7 | 09 | 29.5 | 30 | 26526 | -49.2 | -67.2 | 09 | 24.2 | 30 | 26849 | -45.8 | -67.8 | 09 | 7.7 | 30 | 26849 | -45.8 | -67.8 | 09 | 7.7 | | | | | | | | | | | | | |
| 1000 30 | 1 | 28800 | -42.0 | -52.0 | 09 | 10.1 | 30 | 28773 | -42.6 | -52.6 | 09 | 10.6 | 30 | 28464 | -44.5 | -67.5 | 09 | 30.8 | 30 | 28422 | -47.5 | -67.5 | 09 | 25.7 | 30 | 28780 | -41.9 | -67.9 | 09 | 8.9 | 30 | 28780 | -41.9 | -67.9 | 09 | 8.9 | | | | | | | | | | | | | |
| 500 30 | 1 | 31564 | -37.1 | -47.1 | 09 | 14.0 | 30 | 31523 | -38.7 | -48.7 | 09 | 11.0 | 30 | 31205 | -41.3 | -67.3 | 09 | 28.7 | 30 | 31147 | -44.5 | -67.5 | 09 | 27.3 | 30 | 31573 | -36.7 | -67.7 | 09 | 12.2 | 30 | 31573 | -36.7 | -67.7 | 09 | 12.2 | | | | | | | | | | | | | |
| 0 30 | 1 | 34051 | -32.3 | -42.3 | 09 | 13.4 | 30 | 34002 | -35.1 | -45.1 | 09 | 13.4 | 30 | 33981 | -38.6 | -67.6 | 09 | 28.7 | 30 | 33981 | -38.6 | -67.6 | 09 | 27.3 | 30 | 34051 | -32.3 | -42.3 | 09 | 13.4 | 30 | 34051 | -32.3 | -42.3 | 09 | 13.4 | | | | | | | | | | | | | |

RAWINSONDE DATA

Average monthly values

| LITTLE ROCK, ARK.
1026 MB | | | | | | | | | | MEMPHIS, TENN.
995 MB | | | | | | | | | | MAJURO, MARSHALL IS.
1011 MB | | | | | | | | | | MEDFORD, OREG.
965 MB | | | | | | | | | | MERIDA, MEXICO
1013 MB | | | | | | | | | | |
|-----------------------------------|--------------------|----------------|-------------|-----------|-----------|-------|--------------------|----------------|-------------|--------------------------|-----------|-------|--------------------|----------------|-------------|-----------|-----------|-------|--------------------|---------------------------------|-------------|-----------|-----------|-------|--------------------|----------------|-------------|-----------|-----------|--------------------------|--------------------|----------------|-------------|-----------|-----------|-------|--------------------|----------------|-------------|---------------------------|-----------|-------|-----|-----|------|------|------|------|-----|-----|
| Standard pressure
surface (mb) | No of observations | Dynamic height | Temperature | Dew Point | Direction | Speed | No of observations | Dynamic height | Temperature | Dew Point | Direction | Speed | No of observations | Dynamic height | Temperature | Dew Point | Direction | Speed | No of observations | Dynamic height | Temperature | Dew Point | Direction | Speed | No of observations | Dynamic height | Temperature | Dew Point | Direction | Speed | No of observations | Dynamic height | Temperature | Dew Point | Direction | Speed | No of observations | Dynamic height | Temperature | Dew Point | Direction | Speed | | | | | | | | |
| SURFACE | 30 | 79 | 20.3 | 17.7 | 19 | 4.7 | 30 | 103 | 8.4 | 3.5 | 24 | 1.8 | 30 | 3 | 28.2 | 24.6 | 03 | 5.5 | 30 | 401 | 13.0 | 9.3 | 28 | 4.2 | 30 | 1 | 13.3 | 22.6 | 07 | 1.4 | 30 | 121 | 24.0 | 22.4 | 09 | 4.4 | 30 | 1 | 13.3 | 22.6 | 07 | 1.4 | 30 | 121 | 24.0 | 22.4 | 09 | 4.4 | | |
| 1000 | 30 | 130 | 20.7 | 17.8 | 20 | 1.1 | 30 | 576 | 9.0 | 1.7 | 24 | 1.6 | 30 | 3 | 28.2 | 24.6 | 03 | 5.5 | 30 | 401 | 13.0 | 9.3 | 28 | 4.2 | 30 | 1 | 13.3 | 22.6 | 07 | 1.4 | 30 | 121 | 24.0 | 22.4 | 09 | 4.4 | 30 | 1 | 13.3 | 22.6 | 07 | 1.4 | 30 | 121 | 24.0 | 22.4 | 09 | 4.4 | | |
| 950 | 30 | 572 | 20.8 | 15.6 | 22 | 4.4 | 30 | 576 | 9.0 | 1.7 | 24 | 1.6 | 30 | 3 | 28.2 | 24.6 | 03 | 5.5 | 30 | 401 | 13.0 | 9.3 | 28 | 4.2 | 30 | 1 | 13.3 | 22.6 | 07 | 1.4 | 30 | 121 | 24.0 | 22.4 | 09 | 4.4 | 30 | 1 | 13.3 | 22.6 | 07 | 1.4 | 30 | 121 | 24.0 | 22.4 | 09 | 4.4 | | |
| 900 | 30 | 1342 | 18.0 | 13.1 | 23 | 5.5 | 30 | 955 | 8.8 | -4.4 | 22 | 1.9 | 30 | 3 | 28.2 | 24.6 | 03 | 5.5 | 30 | 401 | 13.0 | 9.3 | 28 | 4.2 | 30 | 1 | 13.3 | 22.6 | 07 | 1.4 | 30 | 121 | 24.0 | 22.4 | 09 | 4.4 | 30 | 1 | 13.3 | 22.6 | 07 | 1.4 | 30 | 121 | 24.0 | 22.4 | 09 | 4.4 | | |
| 850 | 30 | 1531 | 15.2 | 8.9 | 23 | 5.5 | 30 | 1421 | 2.3 | -2.0 | 19 | 1.5 | 30 | 3 | 28.2 | 24.6 | 03 | 5.5 | 30 | 401 | 13.0 | 9.3 | 28 | 4.2 | 30 | 1 | 13.3 | 22.6 | 07 | 1.4 | 30 | 121 | 24.0 | 22.4 | 09 | 4.4 | 30 | 1 | 13.3 | 22.6 | 07 | 1.4 | 30 | 121 | 24.0 | 22.4 | 09 | 4.4 | | |
| 800 | 30 | 2043 | 12.8 | 3.1 | 23 | 5.5 | 30 | 1908 | -1.3 | -4.5 | 19 | 2.0 | 30 | 3 | 28.2 | 24.6 | 03 | 5.5 | 30 | 401 | 13.0 | 9.3 | 28 | 4.2 | 30 | 1 | 13.3 | 22.6 | 07 | 1.4 | 30 | 121 | 24.0 | 22.4 | 09 | 4.4 | 30 | 1 | 13.3 | 22.6 | 07 | 1.4 | 30 | 121 | 24.0 | 22.4 | 09 | 4.4 | | |
| 750 | 30 | 2577 | 10.3 | -2.2 | 25 | 4.3 | 30 | 2419 | -4.5 | -7.5 | 20 | 1.7 | 30 | 3 | 28.2 | 24.6 | 03 | 5.5 | 30 | 401 | 13.0 | 9.3 | 28 | 4.2 | 30 | 1 | 13.3 | 22.6 | 07 | 1.4 | 30 | 121 | 24.0 | 22.4 | 09 | 4.4 | 30 | 1 | 13.3 | 22.6 | 07 | 1.4 | 30 | 121 | 24.0 | 22.4 | 09 | 4.4 | | |
| 700 | 30 | 3155 | 7.2 | -6.9 | 25 | 4.3 | 30 | 2961 | -7.7 | -12.2 | 18 | 1.4 | 30 | 3 | 28.2 | 24.6 | 03 | 5.5 | 30 | 401 | 13.0 | 9.3 | 28 | 4.2 | 30 | 1 | 13.3 | 22.6 | 07 | 1.4 | 30 | 121 | 24.0 | 22.4 | 09 | 4.4 | 30 | 1 | 13.3 | 22.6 | 07 | 1.4 | 30 | 121 | 24.0 | 22.4 | 09 | 4.4 | | |
| 650 | 30 | 3753 | 3.5 | -10.4 | 25 | 4.3 | 30 | 3531 | -11.3 | -17.6 | 18 | 1.4 | 30 | 3 | 28.2 | 24.6 | 03 | 5.5 | 30 | 401 | 13.0 | 9.3 | 28 | 4.2 | 30 | 1 | 13.3 | 22.6 | 07 | 1.4 | 30 | 121 | 24.0 | 22.4 | 09 | 4.4 | 30 | 1 | 13.3 | 22.6 | 07 | 1.4 | 30 | 121 | 24.0 | 22.4 | 09 | 4.4 | | |
| 600 | 30 | 4426 | -0.6 | -14.9 | 25 | 4.3 | 30 | 4144 | -15.3 | -22.4 | 14 | 1.5 | 30 | 3 | 28.2 | 24.6 | 03 | 5.5 | 30 | 401 | 13.0 | 9.3 | 28 | 4.2 | 30 | 1 | 13.3 | 22.6 | 07 | 1.4 | 30 | 121 | 24.0 | 22.4 | 09 | 4.4 | 30 | 1 | 13.3 | 22.6 | 07 | 1.4 | 30 | 121 | 24.0 | 22.4 | 09 | 4.4 | | |
| 550 | 30 | 5268 | -5.0 | -20.5 | 25 | 4.1 | 30 | 4793 | -19.5 | -27.3 | 15 | 1.8 | 30 | 3 | 28.2 | 24.6 | 03 | 5.5 | 30 | 401 | 13.0 | 9.3 | 28 | 4.2 | 30 | 1 | 13.3 | 22.6 | 07 | 1.4 | 30 | 121 | 24.0 | 22.4 | 09 | 4.4 | 30 | 1 | 13.3 | 22.6 | 07 | 1.4 | 30 | 121 | 24.0 | 22.4 | 09 | 4.4 | | |
| 500 | 30 | 5941 | -9.6 | -25.7 | 25 | 4.4 | 30 | 5499 | -24.3 | -32.3 | 06 | 2.4 | 30 | 3 | 28.2 | 24.6 | 03 | 5.5 | 30 | 401 | 13.0 | 9.3 | 28 | 4.2 | 30 | 1 | 13.3 | 22.6 | 07 | 1.4 | 30 | 121 | 24.0 | 22.4 | 09 | 4.4 | 30 | 1 | 13.3 | 22.6 | 07 | 1.4 | 30 | 121 | 24.0 | 22.4 | 09 | 4.4 | | |
| 450 | 30 | 6338 | -15.0 | -29.9 | 25 | 4.2 | 30 | 6253 | -29.8 | -37.4 | 23 | 2.3 | 30 | 3 | 28.2 | 24.6 | 03 | 5.5 | 30 | 401 | 13.0 | 9.3 | 28 | 4.2 | 30 | 1 | 13.3 | 22.6 | 07 | 1.4 | 30 | 121 | 24.0 | 22.4 | 09 | 4.4 | 30 | 1 | 13.3 | 22.6 | 07 | 1.4 | 30 | 121 | 24.0 | 22.4 | 09 | 4.4 | | |
| 400 | 30 | 7528 | -21.1 | -35.6 | 26 | 7.2 | 30 | 7091 | -35.8 | -43.3 | 26 | 5.5 | 30 | 3 | 28.2 | 24.6 | 03 | 5.5 | 30 | 401 | 13.0 | 9.3 | 28 | 4.2 | 30 | 1 | 13.3 | 22.6 | 07 | 1.4 | 30 | 121 | 24.0 | 22.4 | 09 | 4.4 | 30 | 1 | 13.3 | 22.6 | 07 | 1.4 | 30 | 121 | 24.0 | 22.4 | 09 | 4.4 | | |
| 350 | 30 | 8550 | -28.2 | -41.6 | 26 | 11.1 | 30 | 8008 | -42.6 | -50.1 | 26 | 31 | 1.1 | 29 | 30 | 3 | 28.2 | 24.6 | 03 | 5.5 | 30 | 401 | 13.0 | 9.3 | 28 | 4.2 | 30 | 1 | 13.3 | 22.6 | 07 | 1.4 | 30 | 121 | 24.0 | 22.4 | 09 | 4.4 | 30 | 1 | 13.3 | 22.6 | 07 | 1.4 | 30 | 121 | 24.0 | 22.4 | 09 | 4.4 |
| 300 | 30 | 9586 | -36.6 | -47.7 | 27 | 7.6 | 30 | 9032 | -45.2 | -52.7 | 27 | 3.1 | 22 | 30 | 3 | 28.2 | 24.6 | 03 | 5.5 | 30 | 401 | 13.0 | 9.3 | 28 | 4.2 | 30 | 1 | 13.3 | 22.6 | 07 | 1.4 | 30 | 121 | 24.0 | 22.4 | 09 | 4.4 | 30 | 1 | 13.3 | 22.6 | 07 | 1.4 | 30 | 121 | 24.0 | 22.4 | 09 | 4.4 | |
| 250 | 30 | 10826 | -45.6 | -56.0 | 27 | 9.5 | 30 | 10220 | -50.3 | -57.3 | 27 | 3.1 | 22 | 30 | 3 | 28.2 | 24.6 | 03 | 5.5 | 30 | 401 | 13.0 | 9.3 | 28 | 4.2 | 30 | 1 | 13.3 | 22.6 | 07 | 1.4 | 30 | 121 | 24.0 | 22.4 | 09 | 4.4 | 30 | 1 | 13.3 | 22.6 | 07 | 1.4 | 30 | 121 | 24.0 | 22.4 | 09 | 4.4 | |
| 200 | 30 | 12821 | -55.3 | -65.3 | 27 | 10.9 | 30 | 11691 | -66.2 | -73.2 | 27 | 3.2 | 22 | 30 | 3 | 28.2 | 24.6 | 03 | 5.5 | 30 | 401 | 13.0 | 9.3 | 28 | 4.2 | 30 | 1 | 13.3 | 22.6 | 07 | 1.4 | 30 | 121 | 24.0 | 22.4 | 09 | 4.4 | 30 | 1 | 13.3 | 22.6 | 07 | 1.4 | 30 | 121 | 24.0 | 22.4 | 09 | 4.4 | |
| 175 | 30 | 13124 | -59.3 | -70.3 | 28 | 12.2 | 30 | 12580 | -65.9 | -72.9 | 28 | 1.9 | 29 | 30 | 3 | 28.2 | 24.6 | 03 | 5.5 | 30 | 401 | 13.0 | 9.3 | 28 | 4.2 | 30 | 1 | 13.3 | 22.6 | 07 | 1.4 | 30 | 121 | 24.0 | 22.4 | 09 | 4.4 | 30 | 1 | 13.3 | 22.6 | 07 | 1.4 | 30 | 121 | 24.0 | 22.4 | 09 | 4.4 | |
| 150 | 30 | 14583 | -62.8 | -73.8 | 28 | 10.2 | 30 | 13650 | -65.9 | -72.9 | 28 | 1.9 | 29 | 30 | 3 | 28.2 | 24.6 | 03 | 5.5 | 30 | 401 | 13.0 | 9.3 | 28 | 4.2 | 30 | 1 | 13.3 | 22.6 | 07 | 1.4 | 30 | 121 | 24.0 | 22.4 | 09 | 4.4 | 30 | 1 | 13.3 | 22.6 | 07 | 1.4 | 30 | 121 | 24.0 | 22.4 | 09 | 4.4 | |
| 125 | 30 | 15204 | -64.1 | -75.1 | 29 | 7.2 | 30 | 14619 | -64.2 | -71.2 | 29 | 1.7 | 29 | 30 | 3 | 28.2 | 24.6 | 03 | 5.5 | 30 | 401 | 13.0 | 9.3 | 28 | 4.2 | 30 | 1 | 13.3 | 22.6 | 07 | 1.4 | 30 | 121 | 24.0 | 22.4 | 09 | 4.4 | 30 | 1 | 13.3 | 22.6 | 07 | 1.4 | 30 | 121 | 24.0 | 22.4 | 09 | 4.4 | |
| 100 | 30 | 16571 | -66.1 | -76.1 | 30 | 8.9 | 29 | 16301 | -64.5 | -71.5 | 30 | 1.6 | 29 | 30 | 3 | 28.2 | 24.6 | 03 | 5.5 | 30 | 401 | 13.0 | 9.3 | 28 | 4.2 | 30 | 1 | 13.3 | 22.6 | 07 | 1.4 | 30 | 121 | 24.0 | 22.4 | 09 | 4.4 | 30 | 1 | 13.3 | 22.6 | 07 | 1.4 | 30 | 121 | 24.0 | 22.4 | 09 | 4.4 | |
| 75 | 30 | 17937 | -63.4 | -73.4 | 05 | 3.3 | 29 | 17782 | -64.4 | -71.4 | 05 | 1.6 | 29 | 30 | 3 | 28.2 | 24.6 | 03 | 5.5 | 30 | 401 | 13.0 | 9.3 | 28 | 4.2 | 30 | 1 | 13.3 | 22.6 | 07 | 1.4 | 30 | 121 | 24.0 | 22.4 | 09 | 4.4 | 30 | 1 | 13.3 | 22.6 | 07 | 1.4 | 30 | 121 | 24.0 | 22.4 | 09 | 4.4 | |
| 50 | 30 | 18761 | -61.5 | -71.5 | 06 | 4.1 | 29 | 18668 | -60.4 | -67.4 | 06 | 1.3 | 29 | 30 | 3 | 28.2 | 24.6 | 03 | 5.5 | 30 | 401 | 13.0 | 9.3 | 28 | 4.2 | 30 | 1 | 13.3 | 22.6 | 07 | 1.4 | 30 | 121 | 24.0 | 22.4 | 09 | 4.4 | 30 | 1 | 13.3 | 22.6 | 07 | 1.4 | 30 | 121 | 24.0 | 22.4 | 09 | 4.4 | |
| 25 | 30 | 19721 | -59.0 | -69.0 | 08 | 6.1 | 29 | 19691 | -60.4 | -67.4 | 08 | 2.3 | 29 | 30 | 3 | 28.2 | 24.6 | 03 | 5.5 | 30 | 401 | 13.0 | 9.3 | 28 | 4.2 | 30 | 1 | 13.3 | 22.6 | 07 | 1.4 | 30 | 121 | 24.0 | 22.4 | 09 | 4.4 | 30 | 1 | 13.3 | 22.6 | 07 | 1.4 | 30 | 121 | 24.0 | 22.4 | 09 | 4.4 | |
| 0 | 30 | 20787 | -56.1 | -66.1 | 07 | 7.2 | 29 | 20902 | -60.4 | -67.4 | 07 | 1.9 | 29 | 30 | 3 | 28.2 | 24.6 | 03 | 5.5 | 30 | 401 | 13.0 | 9.3 | 28 | 4.2 | 30 | 1 | 13.3 | 22.6 | 07 | 1.4 | 30 | 121 | 24.0 | 22.4 | 09 | 4.4 | 30 | 1 | 13.3 | 22.6 | 07 | 1.4 | 30 | 121 | 24.0 | 22.4 | 09 | 4.4 | |
| 7 | 30 | 22322 | -53.1 | -63.1 | 09 | 8.9 | 29 | 22383 | -60.4 | -67.4 | 09 | 4.2 | 29 | 30 | 3 | 28.2 | 24.6 | 03 | 5.5 | 30 | 401 | 13.0 | 9.3 | 28 | 4.2 | 30 | 1 | 13.3 | 22.6 | 07 | 1.4 | 30 | 121 | 24.0 | 22.4 | 09 | 4.4 | 30 | 1 | 13.3 | 22.6 | 07 | 1.4 | 30 | 121 | 24.0 | 22.4 | 09 | 4.4 | |
| 4 | 30 | 24158 | -49.7 | -59.7 | 09 | 10.8 | 27 | 24297 | -44.8 | -51.8 | 09 | 8.7 | 28 | 30 | 3 | 28.2 | 24.6 | 03 | 5.5 | 30 | 401 | 13.0 | 9.3 | 28 | 4.2 | 30 | 1 | 13.3 | 22.6 | 07 | 1.4 | 30 | 121 | 24.0 | 22.4 | 09 | 4.4 | 30 | 1 | 13.3 | 22.6 | 07 | 1.4 | 30 | 121 | 24.0 | 22.4 | 09 | 4.4 | |
| 1 | 30 | 25355 | -47.7 | -57.7 | 09 | 11.4 | 26 | 25518 | -43.7 | -50.7 | 09 | 8.3 | 27 | 30 | 3 | 28.2 | 24.6 | 03 | 5.5 | 30 | 401 | 13.0 | 9.3 | 28 | 4.2 | 30 | 1 | 13.3 | 22.6 | 07 | 1.4 | 30 | 121 | 24.0 | 22.4 | 09 | 4.4 | 30 | 1 | 13.3 | 22.6 | 07 | 1.4 | 30 | 121 | 24.0 | 22.4 | 09 | | |

Average monthly values

JUNE 1970

| ASPID CITY, S. CAR. | | | | | | | | | | ST. CLOUD, MINN. | | | | | | | | | | ST. PAUL, MINN. | | | | | | | | | | SALEM, ORE. | | | | | | | | | | SAN JUAN, P. R. | | | | | | | | | | | |
|---------------------|-------------|----------------|-------------|--------------|-------------|--------------|-------------|----------------|-------------|--------------------|-------------|----------------|-------------|--------------|-------------|--------------|-------------|----------------|-------------|--------------------|-------------|----------------|-------------|--------------|-------------|--------------|-------------|----------------|-------------|--------------------|-------------|----------------|-------------|--------------|-------------|--------------|-------------|----------------|-------------|--------------------|-------------|----------------|-------------|--------------|-------------|--------------|-------------|----------------|-------------|--------------------|--|
| 903 MB | | | | | | | | | | 976 MB | | | | | | | | | | 1008 MB | | | | | | | | | | 1009 MB | | | | | | | | | | 1016 MB | | | | | | | | | | | |
| Standard measure | | Dynamic height | | Temperature | | Dew point + | | Resultant wind | | No of observations | | Dynamic height | | Temperature | | Dew point + | | Resultant wind | | No of observations | | Dynamic height | | Temperature | | Dew point + | | Resultant wind | | No of observations | | Dynamic height | | Temperature | | Dew point + | | Resultant wind | | No of observations | | Dynamic height | | Temperature | | Dew point + | | Resultant wind | | No of observations | |
| Surface (mb) | Height (mb) | Surface (mb) | Height (mb) | Surface (mb) | Height (mb) | Surface (mb) | Height (mb) | Surface (mb) | Height (mb) | Surface (mb) | Height (mb) | Surface (mb) | Height (mb) | Surface (mb) | Height (mb) | Surface (mb) | Height (mb) | Surface (mb) | Height (mb) | Surface (mb) | Height (mb) | Surface (mb) | Height (mb) | Surface (mb) | Height (mb) | Surface (mb) | Height (mb) | Surface (mb) | Height (mb) | Surface (mb) | Height (mb) | Surface (mb) | Height (mb) | Surface (mb) | Height (mb) | Surface (mb) | Height (mb) | Surface (mb) | Height (mb) | Surface (mb) | Height (mb) | Surface (mb) | Height (mb) | Surface (mb) | Height (mb) | Surface (mb) | Height (mb) | Surface (mb) | Height (mb) | | |
| 5 | 900 | 906 | 12.4 | 7.9 | 31 | 1.5 | 30 | 316 | 15.2 | 12.8 | 16 | 1.0 | 30 | 10 | 3.5 | 30 | 3.0 | 35 | 1.6 | 30 | 61 | 11.5 | 7.6 | 18 | 4.3 | 30 | 138 | 12.5 | 7.7 | 34 | 5.30 | 149 | 25.2 | 21.7 | 12 | 5.4 | 150 | 25.2 | 21.7 | 12 | 5.4 | 150 | 25.2 | 21.7 | 12 | 5.4 | | | | | |
| 1000 | 101 | 107 | | | | | | 107 | | | | | 77 | | | | 01 | 2.3 | 30 | 138 | 12.5 | 7.7 | 34 | 5.30 | 149 | 25.2 | 21.7 | 12 | 5.4 | 150 | 25.2 | 21.7 | 12 | 5.4 | 150 | 25.2 | 21.7 | 12 | 5.4 | 150 | 25.2 | 21.7 | 12 | 5.4 | | | | | | | |
| 900 | 906 | 906 | | | | | | 1006 | 15.6 | 8.4 | 25 | 1.8 | 30 | 933 | 3.0 | 1.2 | 07 | 1.4 | 30 | 1024 | 12.5 | 7.9 | 36 | 1.1 | 30 | 1008 | 19.4 | 15.2 | 11 | 8.7 | 150 | 25.2 | 21.7 | 12 | 5.4 | 150 | 25.2 | 21.7 | 12 | 5.4 | 150 | 25.2 | 21.7 | 12 | 5.4 | | | | | | |
| 850 | 14.43 | 16.9 | 4.6 | 28 | 1.4 | 30 | 1400 | 13.4 | 8.4 | 25 | 3.0 | 30 | 11395 | 1.4 | 1.0 | 07 | 1.4 | 30 | 1024 | 12.5 | 7.9 | 36 | 1.1 | 30 | 1008 | 19.4 | 15.2 | 11 | 8.7 | 150 | 25.2 | 21.7 | 12 | 5.4 | 150 | 25.2 | 21.7 | 12 | 5.4 | 150 | 25.2 | 21.7 | 12 | 5.4 | | | | | | | |
| 800 | 17.98 | 14.0 | 1.6 | 28 | 3.7 | 30 | 1798 | 10.9 | 9.2 | 26 | 3.0 | 30 | 11882 | 1.1 | 1.0 | 07 | 1.4 | 30 | 1024 | 12.5 | 7.9 | 36 | 1.1 | 30 | 1008 | 19.4 | 15.2 | 11 | 8.7 | 150 | 25.2 | 21.7 | 12 | 5.4 | 150 | 25.2 | 21.7 | 12 | 5.4 | 150 | 25.2 | 21.7 | 12 | 5.4 | | | | | | | |
| 750 | 25.36 | 10.6 | -9.2 | 27 | 3.2 | 30 | 2533 | 8.1 | -5.4 | 26 | 6.5 | 30 | 2394 | -3.7 | -9.5 | 08 | 1.6 | 30 | 2533 | 6.1 | -6.9 | 25 | 4.1 | 30 | 2616 | 12.0 | 1.6 | 11 | 7.1 | 150 | 25.2 | 21.7 | 12 | 5.4 | 150 | 25.2 | 21.7 | 12 | 5.4 | | | | | | | | | | | | |
| 700 | 31.10 | 6.6 | -5.1 | 29 | 4.2 | 30 | 3100 | 4.5 | -8.3 | 27 | 5.1 | 30 | 2937 | -6.8 | -13.8 | 08 | 1.5 | 30 | 3100 | 2.6 | -10.2 | 25 | 4.9 | 30 | 3193 | 8.8 | -2.9 | 11 | 5.8 | 150 | 25.2 | 21.7 | 12 | 5.4 | 150 | 25.2 | 21.7 | 12 | 5.4 | | | | | | | | | | | | |
| 650 | 37.39 | 2.3 | -9.6 | 28 | 5.6 | 30 | 3739 | 1.2 | -13.5 | 28 | 5.5 | 30 | 3511 | -9.8 | -16.3 | 09 | 2.0 | 30 | 3692 | -9.9 | -13.2 | 25 | 6.0 | 30 | 3798 | 5.2 | -6.8 | 11 | 5.6 | 150 | 25.2 | 21.7 | 12 | 5.4 | 150 | 25.2 | 21.7 | 12 | 5.4 | | | | | | | | | | | | |
| 600 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| SAN NICOLAS, CALIF.
995 MB | | | | SAULT STE MARIE, MICH.
988 MB | | | | SHEMYA, ALASKA
1007 MB | | | | SHREVEPORT, LA.
1006 MB | | | | SPOKANE, WASH.
930 MB | | | | | | | | | |
|-------------------------------|-------------------|-------|-------|----------------------------------|-------|------|------|---------------------------|-------|-------|-------|----------------------------|------|------|-------|--------------------------|-------|------|------|------|-------|-------|-------|-----|------|
| SURFACE | | 30 | 221 | 11.6 | 7.9 | 05 | .7 | 30 | 38 | 4.8 | 3.2 | 05 | 1.4 | 30 | 79 | 20.9 | 18.9 | 21 | 1.3 | 30 | 720 | 13.2 | 6.3 | 17 | 2.0 |
| 1000 | INSUFFICIENT DATA | 30 | 121 | | | | | 30 | 95 | | | | 08 | 2.4 | 30 | 128 | 21.1 | 19.2 | 23 | 2.6 | 30 | 101 | | | |
| 950 | | 30 | 557 | 13.8 | 6.9 | 23 | 1.3 | 30 | 512 | 3.4 | .9 | 06 | 7.2 | 30 | 579 | 21.4 | 17.4 | 23 | 6.1 | 30 | 537 | | | | |
| 900 | | 30 | 1008 | 12.6 | 4.9 | 27 | 4.0 | 30 | 951 | 3.4 | -1.4 | 07 | 2.2 | 30 | 1042 | 19.0 | 13.5 | 23 | 6.4 | 30 | 997 | 15.7 | 4.5 | 21 | 3.3 |
| 850 | | 30 | 1486 | 10.0 | 2.2 | 27 | 5.6 | 30 | 1464 | 1.9 | -0.1 | 18 | 1.8 | 30 | 1532 | 16.1 | 9.4 | 23 | 6.4 | 30 | 1481 | 14.2 | 1.3 | 23 | 4.4 |
| 800 | | 30 | 1988 | 7.7 | -2.0 | 29 | 5.7 | 30 | 1902 | 1.2 | -8.4 | 02 | 1.7 | 30 | 2046 | 10.6 | 5.3 | 24 | 5.5 | 30 | 1990 | 10.6 | -1.3 | 24 | 4.5 |
| 750 | | 30 | 2518 | 5.2 | -5.7 | 29 | 6.9 | 30 | 2504 | 1.3 | -11.5 | 04 | 2.0 | 30 | 2638 | 13.5 | -1.1 | 25 | 6.2 | 30 | 2535 | 12.4 | -4.6 | 25 | 7.7 |
| 700 | | 30 | 3079 | 2.3 | -9.6 | 29 | 7.7 | 30 | 2953 | -0.8 | -15.2 | 04 | 2.2 | 30 | 3159 | -2.2 | -5.5 | 25 | 4.2 | 30 | 3097 | 3.2 | -6.7 | 25 | 4.1 |
| 650 | | 30 | 3673 | -0.6 | -14.1 | 29 | 8.8 | 30 | 3556 | -0.8 | -18.3 | 04 | 2.2 | 30 | 3766 | 3.5 | -9.5 | 25 | 3.9 | 30 | 3676 | -0.8 | -10.3 | 24 | 4.3 |
| 600 | | 30 | 4310 | -4.0 | -19.4 | 29 | 9.1 | 30 | 4162 | -11.6 | -21.1 | 03 | 2.0 | 30 | 4410 | -0.8 | -13.2 | 25 | 5.2 | 30 | 4319 | -4.8 | -15.3 | 24 | 4.8 |
| 550 | | 30 | 4987 | -8.1 | -23.2 | 29 | 9.7 | 30 | 4818 | -15.4 | -23.6 | 35 | 2.5 | 30 | 5096 | -6.8 | -19.7 | 26 | 5.2 | 30 | 4989 | -9.2 | -20.7 | 25 | 5.9 |
| 500 | 30 | 5726 | -12.6 | -27.2 | 29 | 10.3 | 30 | 5538 | -19.7 | -28.3 | 35 | 3.3 | 30 | 5844 | -9.3 | -25.0 | 26 | 5.8 | 30 | 5728 | -14.0 | -26.2 | 24 | 6.6 | |
| 450 | 30 | 6518 | -18.0 | -32.5 | 29 | 11.3 | 30 | 6304 | -24.8 | -33.4 | 34 | 3.7 | 30 | 6648 | -14.5 | -30.0 | 26 | 6.6 | 30 | 6515 | -19.5 | -31.5 | 24 | 6.1 | |
| 400 | 30 | 7394 | -24.2 | -38.1 | 29 | 12.1 | 30 | 7150 | -30.7 | -38.9 | 33 | 3.9 | 30 | 7537 | -22.7 | -36.6 | 27 | 7.3 | 30 | 7385 | -26.0 | -40.0 | 24 | 7.8 | |
| 350 | 30 | 8353 | -31.4 | -44.3 | 29 | 12.6 | 30 | 8094 | -37.8 | -43.7 | 33 | 5.9 | 29 | 8506 | -28.1 | -43.2 | 26 | 7.8 | 30 | 8338 | -33.0 | -41.9 | 22 | 8.1 | |
| 300 | 30 | 9425 | -39.4 | -50.0 | 30 | 14.0 | 30 | 9139 | -45.3 | | 33 | 6.4 | 29 | 9594 | -36.5 | -49.0 | 27 | 8.9 | 30 | 9404 | -41.2 | -47.2 | 22 | 8.7 | |
| 250 | 30 | 10649 | -48.0 | | | 30 | 14.3 | 30 | 10337 | -51.9 | | 33 | 7.0 | 29 | 10833 | -45.7 | | 27 | 10.7 | 30 | 10619 | -49.7 | | 21 | 10.2 |
| 200 | 30 | 12094 | -54.9 | | | 30 | 16.6 | 30 | 11783 | -51.1 | | 31 | 7.4 | 29 | 12288 | -55.4 | | 27 | 13.3 | 30 | 12060 | -54.5 | | 23 | 9.7 |
| 175 | 30 | 12944 | -56.2 | | | 30 | 15.3 | 30 | 12654 | -50.0 | | 31 | 5.9 | 29 | 13917 | -55.9 | | 27 | 13.5 | 30 | 12915 | -54.7 | | 23 | 9.8 |
| 150 | 30 | 13924 | -56.0 | | | 27 | 13.2 | 30 | 13663 | -46.7 | | 31 | 5.3 | 29 | 14084 | -53.6 | | 28 | 11.3 | 30 | 13901 | -54.9 | | 23 | 7.6 |
| 125 | 30 | 15083 | -56.3 | | | 30 | 11.5 | 30 | 14654 | -50.4 | | 31 | 4.0 | 29 | 15196 | -66.3 | | 28 | 9.3 | 30 | 15006 | -55.5 | | 23 | 5.3 |
| 100 | 30 | 16499 | -56.5 | | | 31 | 7.5 | 30 | 16308 | -51.0 | | 32 | 2.3 | 29 | 16546 | -66.9 | | 29 | 2.1 | 30 | 16485 | -56.9 | | 23 | 2.7 |
| 80 | 30 | 17914 | -56.2 | | | 33 | 4.3 | 29 | 17759 | -50.5 | | 03 | 1.3 | 29 | 17900 | -65.1 | | 07 | 2.8 | 30 | 17895 | -57.3 | | 20 | 1.4 |
| 60 | 30 | 18764 | -55.6 | | | 35 | 3.0 | 29 | 18631 | -50.1 | | 06 | 1.5 | 29 | 18717 | -60.5 | | 07 | 5.4 | 30 | 18741 | -56.3 | | 12 | 1.2 |
| 40 | 30 | 19749 | -54.2 | | | 09 | 3.2 | 29 | 19638 | -49.7 | | 08 | 3.2 | 29 | 19763 | -59.9 | | 06 | 7.2 | 30 | 19723 | -54.8 | | 09 | 2.1 |
| 20 | 30 | 20924 | -51.9 | | | 06 | 3.3 | 29 | 20931 | -50.6 | | 08 | 3.2 | 28 | 20826 | -56.9 | | 09 | 8.8 | 30 | 20903 | -53.2 | | 09 | 3.6 |
| 0 | 30 | 22371 | -50.2 | | | 04 | 4.2 | 29 | 22299 | -49.9 | | 08 | 4.4 | 28 | 22442 | -55.0 | | 07 | 10.2 | 30 | 22335 | -51.7 | | 09 | 5.1 |
| 40 | 30 | 24261 | -47.5 | | | 08 | 5.4 | 29 | 24182 | -48.4 | | 09 | 6.2 | 28 | 24104 | -50.3 | | 09 | 12.4 | 30 | 24209 | -49.7 | | 08 | 6.6 |
| 25 | 30 | 25469 | -46.5 | | | 08 | 6.0 | 29 | 25384 | -47.5 | | 09 | 6.8 | 28 | 25304 | -48.5 | | 09 | 13.4 | 28 | 25411 | -48.2 | | 08 | 7.0 |
| 10 | 30 | 26937 | -44.3 | | | 08 | 7.4 | 29 | 26865 | -45.5 | | 09 | 7.9 | 24 | 26783 | -45.6 | | 09 | 13.8 | 28 | 26884 | -46.0 | | 09 | 8.6 |
| 0 | 28 | 28497 | -40.7 | | | 09 | 8.1 | 28 | 28792 | -42.4 | | 09 | 9.0 | 20 | 28705 | -47.7 | | 09 | 14.8 | 18 | 28635 | -42.2 | | 09 | 8.8 |
| 10 | 24 | 31689 | -35.8 | | | 08 | 10.4 | 18 | 31626 | -32.9 | | 08 | 10.9 | 19 | 31471 | -37.8 | | 09 | 13.1 | 10 | 31625 | -36.7 | | 09 | 8.6 |
| 7 | 30 | 34189 | -30.3 | | | 08 | 11.5 | 12 | 34155 | -37.8 | | 08 | 12.6 | 10 | 33959 | -37.4 | | | | | | | | | |
| 5 | 7 | 36588 | -26.0 | | | | | 30 | 36600 | -22.3 | | | | | | | | | | | | | | | |

| | SWAN ISLAND, MI. | | | | | | | | | | TAMPA, FLA. | | | | | | | | | | TOPERA, KANS. | | | | | | | | | | TRUK, CAROLINE IS. | | | | | | | | | | TUCSON, ARIZ. | | | | | | | | | |
|---------|------------------|-------|-------|-------|----|------|----|--------|-------|-------|-------------|------|--------|-------|-------|-------|----|--------|-------|-------|---------------|-------|-----|------|----|--------|-------|-------|----|------|--------------------|--|--|--|--|--|--|--|--|--|---------------|--|--|--|--|--|--|--|--|--|
| | 1012 MB | | | | | | | | | | 1016 MB | | | | | | | | | | 982 MB | | | | | | | | | | 1010 MB | | | | | | | | | | 922 MB | | | | | | | | | |
| SURFACE | 30 | 10 | 26.9 | 24.3 | 09 | 4.1 | 30 | 8 | 23.5 | 21.5 | 11 | 1.0 | 30 | 268 | 17.9 | 15.9 | 16 | 1.7 | 30 | 2 | 28.9 | 24.8 | 07 | 4.2 | 30 | 789 | 21.4 | 2.5 | 15 | 3.2 | | | | | | | | | | | | | | | | | | | | |
| 1000 | 30 | 117 | 26.1 | 23.7 | 09 | 5.6 | 30 | 147 | 23.8 | 20.6 | 13 | 1.4 | 30 | 112 | | | | 30 | 92 | 28.1 | 23.6 | 08 | 5.0 | 30 | 74 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 950 | 30 | 571 | 23.0 | 20.9 | 10 | 8.3 | 30 | 594 | 21.6 | 17.2 | 19 | 1.7 | 30 | 557 | 18.9 | 14.2 | 17 | 3.6 | 30 | 545 | 24.5 | 19.8 | 09 | 8.0 | 30 | 526 | | | | | | | | | | | | | | | | | | | | | | | | |
| 900 | 30 | 1060 | 20.2 | 18.5 | 10 | 8.6 | 30 | 1066 | 18.9 | 12.2 | 21 | 1.4 | 30 | 1018 | 10.8 | 10.8 | 21 | 3.9 | 30 | 1020 | 21.6 | 16.1 | 09 | 8.4 | 30 | 999 | 25.0 | 3.4 | 15 | 2.5 | | | | | | | | | | | | | | | | | | | | |
| 850 | 30 | 1432 | 17.2 | 14.1 | 11 | 9.1 | 30 | 1553 | 16.1 | 8.9 | 24 | 1.4 | 30 | 1511 | 16.0 | 6.4 | 24 | 3.1 | 30 | 1515 | 18.8 | 12.5 | 09 | 7.8 | 30 | 1498 | 22.6 | 1.2 | 17 | 2.5 | | | | | | | | | | | | | | | | | | | | |
| 800 | 30 | 2049 | 14.7 | 7.7 | 11 | 9.0 | 30 | 2066 | 13.3 | 4.1 | 25 | 2.2 | 30 | 2035 | 16.3 | 8.1 | 27 | 3.9 | 30 | 2035 | 16.3 | 8.1 | 27 | 7.1 | 30 | 2032 | 19.0 | -5.0 | 20 | 2.2 | | | | | | | | | | | | | | | | | | | | |
| 750 | 30 | 2589 | 11.9 | 3.0 | 11 | 8.8 | 30 | 2605 | 10.6 | -1.8 | 25 | 2.6 | 30 | 2562 | 10.4 | -1.1 | 27 | 3.9 | 30 | 2568 | 16.8 | 4.3 | 09 | 7.3 | 30 | 2568 | 15.3 | -4.3 | 21 | 2.9 | | | | | | | | | | | | | | | | | | | | |
| 700 | 30 | 3169 | 8.7 | -2.1 | 12 | 7.7 | 30 | 3179 | 7.4 | -7.1 | 27 | 3.0 | 30 | 3136 | 6.8 | -6.7 | 27 | 4.1 | 30 | 3161 | 10.9 | 1.1 | 09 | 6.9 | 30 | 3153 | 11.0 | -7.5 | 27 | 4.0 | | | | | | | | | | | | | | | | | | | | |
| 650 | 30 | 3777 | 5.1 | -6.1 | 11 | 5.9 | 30 | 3780 | 3.8 | -10.5 | 27 | 3.2 | 30 | 3736 | 3.2 | -9.7 | 27 | 4.2 | 30 | 3775 | 7.5 | -3.6 | 09 | 7.2 | 30 | 3762 | 6.4 | -10.4 | 23 | 5.5 | | | | | | | | | | | | | | | | | | | | |
| 600 | 30 | 4429 | 1.4 | -10.1 | 12 | 4.8 | 30 | 4431 | -1 | -13.5 | 28 | 3.1 | 30 | 4386 | -1.2 | -14.2 | 28 | 4.6 | 30 | 4431 | 3.7 | -7.2 | 09 | 6.8 | 30 | 4417 | 1.6 | -13.0 | 23 | 6.5 | | | | | | | | | | | | | | | | | | | | |
| 550 | 30 | 5177 | -2.1 | -16.3 | 13 | 3.1 | 30 | 5120 | -3.3 | -18.8 | 28 | 3.3 | 30 | 5066 | -5.9 | -19.3 | 28 | 4.3 | 30 | 5127 | -2.2 | -11.8 | 09 | 6.1 | 30 | 5105 | -3.5 | -17.5 | 23 | 6.8 | | | | | | | | | | | | | | | | | | | | |
| 500 | 30 | 5877 | -6.5 | -20.9 | 10 | 2.7 | 30 | 5877 | -8.1 | -24.4 | 30 | 3.9 | 30 | 5814 | -11.0 | -24.0 | 27 | 4.9 | 30 | 5890 | -6.2 | -17.2 | 09 | 5.7 | 30 | 5858 | -8.9 | -22.5 | 24 | 8.4 | | | | | | | | | | | | | | | | | | | | |
| 450 | 30 | 6686 | -11.4 | -25.1 | 08 | 1.6 | 30 | 6677 | -17.1 | -28.9 | 30 | 3.9 | 30 | 6585 | -15.9 | -25.9 | 27 | 6.5 | 30 | 6705 | -8.9 | -22.5 | 09 | 4.9 | 30 | 6699 | -10.9 | -28.9 | 25 | 9.2 | | | | | | | | | | | | | | | | | | | | |
| 400 | 30 | 7589 | -17.1 | -30.7 | 29 | 1.7 | 30 | 7569 | -19.2 | -35.4 | 30 | 4.7 | 30 | 7492 | -22.5 | -35.2 | 27 | 6.5 | 30 | 7615 | -11.1 | -36.0 | 10 | 1.7 | 30 | 7550 | -20.5 | -35.5 | 25 | 9.6 | | | | | | | | | | | | | | | | | | | | |
| 350 | 30 | 8576 | -24.3 | -36.9 | 9 | 2.0 | 30 | 8548 | -26.5 | -41.6 | 30 | 6.7 | 30 | 8458 | -29.9 | -41.3 | 26 | 8.4 | 30 | 8617 | -21.1 | -36.0 | 10 | 1.7 | 30 | 8523 | -27.9 | -41.6 | 27 | 10.3 | | | | | | | | | | | | | | | | | | | | |
| 300 | 30 | 9681 | -32.8 | -44.7 | 29 | 3.0 | 30 | 9642 | -35.0 | -48.8 | 30 | 8.1 | 30 | 9538 | -38.3 | -47.3 | 25 | 10.5 | 30 | 9736 | -9.4 | -44.0 | 20 | 1.1 | 30 | 9611 | -36.6 | -47.3 | 27 | 12.1 | | | | | | | | | | | | | | | | | | | | |
| 250 | 30 | 10940 | -42.6 | | 30 | 5.4 | 30 | 10888 | -44.6 | | 30 | 9.8 | 30 | 10768 | -47.3 | | 25 | 12.4 | 30 | 11010 | -39.7 | -53.4 | 25 | 2.0 | 30 | 10849 | -46.2 | | 27 | 15.0 | | | | | | | | | | | | | | | | | | | | |
| 200 | 30 | 12447 | -54.7 | | 30 | 8.1 | 30 | 12345 | -55.6 | | 30 | 12.1 | 30 | 12214 | -55.9 | | 27 | 13.1 | 30 | 12495 | -52.3 | | 26 | 2.7 | 30 | 12298 | -56.3 | | 27 | 19.1 | | | | | | | | | | | | | | | | | | | | |
| 175 | 30 | 13248 | -61.5 | | 30 | 10.7 | 30 | 13184 | -61.3 | | 30 | 12.5 | 30 | 13057 | -59.0 | | 26 | 12.0 | 30 | 13344 | -52.8 | | 27 | 3.5 | 30 | 13137 | -60.5 | | 27 | 16.9 | | | | | | | | | | | | | | | | | | | | |
| 150 | 30 | 14188 | -68.3 | | 29 | 10.1 | 30 | 14128 | -66.5 | | 30 | 11.6 | 30 | 14020 | -60.7 | | 27 | 9.9 | 30 | 14289 | -57.6 | | 30 | 3.0 | 30 | 14009 | -66.1 | | 27 | 12.9 | | | | | | | | | | | | | | | | | | | | |
| 125 | 30 | 15267 | -73.2 | | 31 | 8.1 | 30 | 15221 | -68.9 | | 32 | 9.5 | 30 | 15148 | -61.2 | | 28 | 7.2 | 30 | 15365 | -57.1 | | 32 | 3.0 | 30 | 15199 | -66.2 | | 27 | 16.9 | | | | | | | | | | | | | | | | | | | | |
| 100 | 30 | 16568 | -73.9 | | 01 | 3.7 | 30 | 16554 | -69.4 | | 34 | 8.7 | 30 | 16527 | -62.7 | | 31 | 9.7 | 30 | 16683 | -79.1 | | 30 | 3.4 | 30 | 16549 | -66.9 | | 26 | 6.5 | | | | | | | | | | | | | | | | | | | | |
| 75 | 30 | 17875 | -71.6 | | 07 | 5.3 | 30 | 17894 | -66.7 | | 06 | 4.2 | 30 | 17802 | -62.2 | | 02 | 2.1 | 30 | 17922 | -74.4 | | 07 | 3.2 | 30 | 17898 | -65.6 | | 12 | 1.4 | | | | | | | | | | | | | | | | | | | | |
| 70 | 30 | 18667 | -69.4 | | 08 | 7.2 | 30 | 18706 | -64.2 | | 07 | 6.1 | 30 | 18732 | -60.4 | | 06 | 2.4 | 30 | 18767 | -70.3 | | 09 | 4.9 | 30 | 18713 | -63.0 | | 09 | 5.4 | | | | | | | | | | | | | | | | | | | | |
| 65 | 30 | 19595 | -65.8 | | 09 | 11.2 | 30 | 19558 | -60.9 | | 08 | 9.2 | 30 | 19697 | -58.0 | | 09 | 4.0 | 30 | 19630 | -67.1 | | 09 | 7.8 | 30 | 19669 | -60.1 | | 09 | 7.0 | | | | | | | | | | | | | | | | | | | | |
| 60 | 30 | 20716 | -61.1 | | 09 | 11.8 | 30 | 20798 | -58.1 | | 10 | 13.2 | 30 | 20748 | -55.4 | | 09 | 4.7 | 30 | 20739 | -67.1 | | 09 | 13.9 | 30 | 20815 | -57.0 | | 09 | 9.0 | | | | | | | | | | | | | | | | | | | | |
| 55 | 30 | 22115 | -57.3 | | 09 | 19.4 | 30 | 22215 | -55.3 | | 10 | 15.1 | 30 | 22279 | -53.0 | | 09 | 5.1 | 30 | 22214 | -60.1 | | 09 | 23.6 | 30 | 22237 | -58.1 | | 09 | 13.4 | | | | | | | | | | | | | | | | | | | | |
| 50 | 30 | 23947 | -53.6 | | 10 | 22.2 | 30 | 24072 | -51.1 | | 09 | 15.4 | 30 | 23947 | -48.8 | | 09 | 6.4 | 30 | 23912 | -52.0 | | 09 | 33.4 | 30 | 23993 | -50.9 | | 09 | 13.8 | | | | | | | | | | | | | | | | | | | | |
| 45 | 30 | 25128 | -50.6 | | 09 | 23.7 | 30 | 25264 | -48.9 | | 09 | 16.9 | 30 | 25128 | -46.8 | | 08 | 7.9 | 30 | 25106 | -48.2 | | 09 | 34.6 | 30 | 25286 | -48.5 | | 09 | 13.4 | | | | | | | | | | | | | | | | | | | | |
| 40 | 30 | 26395 | -46.8 | | 09 | 26.6 | 30 | 26736 | -46.9 | | 09 | 18.4 | 30 | 26715 | -46.8 | | 08 | 6.9 | 30 | 26756 | -48.2 | | 09 | 34.9 | 30 | 26765 | -46.5 | | 09 | 13.5 | | | | | | | | | | | | | | | | | | | | |
| 35 | 30 | 28319 | -43.2 | | 09 | 27.0 | 30 | 28657 | -43.3 | | 09 | 23.2 | 30 | 28837 | -43.6 | | 08 | 7.5 | 30 | 28483 | -43.5 | | 09 | 34.6 | 30 | 28798 | -42.0 | | 09 | 12.9 | | | | | | | | | | | | | | | | | | | | |
| 30 | 30 | 31302 | -39.5 | | 09 | 28.3 | 30 | 31400 | -39.5 | | 09 | 23.2 | 30 | 31487 | -39.0 | | 09 | 8.8 | 30 | 31235 | -39.0 | | 09 | 30.6 | 30 | 31444 | -37.4 | | 08 | 13.5 | | | | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | 33.884 | -36.8 | | | 6 | 33.988 | -37.2 | | | 0 | 33.994 | -35.8 | | | | | | 12 | 33.944 | -32.3 | | 08 | 16.0 | | | | | | | | | | | | | | | | | | | | |

Average monthly values

- 367 -

SOLAR RADIATION INTENSITIES

JUNE 1970

Tabulated in langley's per minute on a surface normal to the direction of the sun.

| TUCSON, ARIZ. | | | | | | | | | | ALBUQUERQUE, N. MEX. | | | | | | | | | |
|-----------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Sun's zenith distance | | | | | | | | | | Sun's zenith distance | | | | | | | | | |
| A M | | | | | P M | | | | | A. M. | | | | | P M | | | | |
| 78.7° | 75.7° | 70.7° | 60.0° | * | 60.0° | 70.7° | 75.7° | 78.7° | | 78.7° | 75.7° | 70.7° | 60.0° | * | 60.0° | 70.7° | 75.7° | 78.7° | |
| Air mass | | | | | | | | | | Air mass | | | | | | | | | |
| 4.56 | 3.65 | 2.74 | 1.83 | * | 1.83 | 2.74 | 3.65 | 4.56 | | 4.19 | 3.35 | 2.51 | 1.67 | * | 1.67 | 2.51 | 3.35 | 4.19 | |
| June | | | | | | | | | | June | | | | | | | | | |
| 1----- | 0.47 | 0.58 | 0.74 | 0.93 | 1.23 | 0.94 | 0.77 | 0.64 | 0.53 | 1----- | 0.73 | 0.81 | 0.96 | 1.17 | 1.16 | 1.03 | 0.90 | 0.82 | |
| 2----- | .63 | .72 | .87 | 1.07 | 1.30 | 1.08 | .94 | .85 | .74 | 2----- | .90 | .94 | 1.08 | 1.23 | 1.19 | 1.03 | .92 | .83 | |
| 3----- | .69 | .83 | .94 | 1.09 | 1.30 | 1.08 | .91 | .77 | .65 | 3----- | .82 | ----- | ----- | 1.18 | 1.37 | 1.16 | ----- | ----- | |
| 4----- | .63 | .73 | .86 | 1.02 | 1.25 | ----- | ----- | ----- | ----- | 4----- | ----- | ----- | ----- | ----- | 1.20 | ----- | ----- | ----- | |
| 5----- | .71 | .86 | 1.02 | ----- | ----- | ----- | ----- | ----- | ----- | 5----- | ----- | ----- | ----- | .97 | 1.27 | ----- | ----- | ----- | |
| 6----- | .64 | .73 | .86 | 1.02 | 1.26 | .97 | ----- | ----- | ----- | 6----- | ----- | ----- | ----- | 1.28 | ----- | ----- | ----- | ----- | |
| 7----- | .66 | .79 | .94 | 1.27 | 1.03 | .84 | .72 | ----- | ----- | 7----- | .69 | .79 | ----- | 1.09 | ----- | ----- | ----- | ----- | |
| 8----- | ----- | ----- | ----- | ----- | ----- | .97 | .81 | .69 | ----- | 8----- | .84 | .94 | 1.06 | 1.21 | 1.41 | 1.23 | 1.08 | .95 | .89 |
| 9----- | .63 | .74 | .85 | 1.04 | 1.30 | 1.01 | .84 | ----- | ----- | 9----- | .92 | .99 | 1.10 | 1.22 | 1.37 | 1.07 | .93 | .81 | .73 |
| 10----- | .41 | .60 | .82 | .99 | 1.26 | .97 | .79 | .65 | .54 | 10----- | .94 | 1.02 | 1.13 | 1.28 | 1.42 | 1.19 | .99 | .85 | .78 |
| 11----- | .73 | .83 | .95 | 1.14 | 1.32 | 1.04 | .89 | .78 | .68 | 11----- | 1.02 | 1.09 | 1.21 | 1.32 | 1.47 | 1.17 | 1.01 | .84 | .74 |
| 12----- | .81 | .89 | .99 | 1.16 | 1.31 | 1.16 | 1.04 | .93 | .84 | 12----- | .99 | 1.07 | 1.18 | 1.30 | 1.46 | ----- | 1.09 | ----- | .88 |
| 13----- | .86 | .94 | ----- | 1.20 | 1.39 | 1.20 | 1.03 | .93 | .83 | 13----- | .98 | 1.05 | 1.17 | 1.27 | 1.44 | 1.23 | 1.07 | .94 | .88 |
| 14----- | .89 | .97 | 1.09 | 1.20 | 1.43 | 1.18 | ----- | ----- | ----- | 14----- | .88 | .96 | 1.10 | 1.25 | ----- | 1.24 | 1.09 | .95 | ----- |
| 15----- | .88 | .96 | 1.08 | 1.21 | 1.37 | 1.22 | 1.05 | .95 | .86 | 15----- | .71 | .78 | .93 | 1.12 | 1.33 | ----- | ----- | ----- | ----- |
| 16----- | .82 | .91 | 1.01 | 1.13 | 1.34 | 1.08 | .94 | .85 | .74 | 16----- | .74 | .82 | .96 | 1.10 | 1.27 | ----- | ----- | ----- | ----- |
| 17----- | ----- | ----- | ----- | 1.11 | ----- | 1.10 | ----- | ----- | ----- | 17----- | .68 | .75 | .93 | 1.10 | 1.34 | ----- | ----- | ----- | ----- |
| 18----- | ----- | ----- | ----- | 1.15 | 1.30 | 1.05 | .95 | .82 | .70 | 18----- | .80 | .86 | 1.00 | 1.15 | 1.37 | 1.11 | ----- | ----- | .73 |
| 19----- | .73 | .81 | .91 | 1.02 | 1.15 | ----- | ----- | ----- | ----- | 19----- | .76 | .83 | .96 | 1.12 | 1.35 | 1.09 | ----- | ----- | ----- |
| 20----- | ----- | ----- | ----- | 1.14 | ----- | ----- | ----- | ----- | ----- | 20----- | .72 | .79 | .92 | 1.07 | 1.29 | 1.04 | .87 | .75 | .67 |
| 21----- | .57 | .65 | .75 | .91 | 1.10 | ----- | .56 | .49 | .35 | 21----- | .72 | .79 | .92 | 1.09 | 1.29 | ----- | .86 | .74 | .69 |
| 22----- | .55 | .66 | .78 | .86 | 1.22 | .84 | ----- | .51 | ----- | 22----- | .63 | .78 | .90 | 1.06 | ----- | ----- | ----- | ----- | ----- |
| 23----- | .56 | .66 | .77 | .93 | 1.21 | .95 | .78 | .58 | .50 | 23----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | .77 | ----- |
| 24----- | .53 | .64 | .79 | .94 | ----- | ----- | ----- | ----- | ----- | 24----- | ----- | .84 | .98 | ----- | ----- | 1.17 | 1.03 | .86 | ----- |
| 25----- | .47 | .58 | .69 | .88 | 1.13 | ----- | ----- | ----- | ----- | 25----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 26----- | .57 | .68 | .81 | .98 | 1.22 | .97 | .88 | .77 | .63 | 26----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 27----- | .61 | .72 | .85 | 1.04 | 1.27 | 1.04 | .92 | .80 | .70 | 27----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| Aver-
ages | 0.65 | 0.75 | 0.87 | 1.04 | 1.26 | 1.05 | 0.89 | 0.76 | 0.66 | Aver-
ages | 0.81 | 0.89 | 1.03 | 1.17 | 1.35 | 1.16 | 1.01 | 0.86 | 0.79 |

Langley's is the unit used to denote one gram calorie per square centimeter. An explanation of the formula used in computing the air mass values for each station listed above appears

in the February, 1967 issue Vol. 8, No. 2, page 63, of this publication.

SOLAR RADIATION TOTALS

daily totals and monthly averages of solar radiation (direct and diffuse) received on a horizontal surface, tabulated in langley's.

JUNE 1970

| Station | Day of month | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Avg. |
|------------------|--------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | |
| ALBUQUERQUE N.M. | 851 | 723 | 266 | 715 | 768 | 513 | 536 | 420 | 438 | 557 | 403 | 782 | 577 | 724 | 257 | 346 | 775 | 714 | 726 | 718 | 624 | 677 | 658 | 778 | 743 | 759 | 670 | 259 | 561 | 452 | 721 | 629 |
| ALBUQUERQUE N.M. | 851 | 723 | 266 | 715 | 768 | 513 | 536 | 420 | 438 | 557 | 403 | 782 | 577 | 724 | 257 | 346 | 775 | 714 | 726 | 718 | 624 | 677 | 658 | 778 | 743 | 759 | 670 | 259 | 561 | 452 | 721 | 629 |
| AMES IOWA | 85 | 590 | 676 | 494 | 580 | 609 | 583 | 659 | 517 | 455 | 323 | 374 | 625 | 583 | 567 | 595 | 406 | 512 | --- | 864 | 820 | --- | 864 | 851 | 864 | 851 | 864 | 768 | 797 | 738 | 696 | 1835 |
| ANNETTE ALASKA | 111 | 73 | 362 | 497 | 739 | 451 | 477 | 390 | 420 | 451 | 611 | 713 | 633 | 715 | 582 | 595 | 406 | 512 | --- | 864 | 820 | --- | 864 | 851 | 864 | 851 | 864 | 768 | 797 | 738 | 696 | 1835 |
| ANNETTE ALASKA | 111 | 73 | 362 | 497 | 739 | 451 | 477 | 390 | 420 | 451 | 611 | 713 | 633 | 715 | 582 | 595 | 406 | 512 | --- | 864 | 820 | --- | 864 | 851 | 864 | 851 | 864 | 768 | 797 | 738 | 696 | 1835 |
| ANNETTE ALASKA | 111 | 73 | 362 | 497 | 739 | 451 | 477 | 390 | 420 | 451 | 611 | 713 | 633 | 715 | 582 | 595 | 406 | 512 | --- | 864 | 820 | --- | 864 | 851 | 864 | 851 | 864 | 768 | 797 | 738 | 696 | 1835 |
| ANNETTE ALASKA | 111 | 73 | 362 | 497 | 739 | 451 | 477 | 390 | 420 | 451 | 611 | 713 | 633 | 715 | 582 | 595 | 406 | 512 | --- | 864 | 820 | --- | 864 | 851 | 864 | 851 | 864 | 768 | 797 | 738 | 696 | 1835 |
| ANNETTE ALASKA | 111 | 73 | 362 | 497 | 739 | 451 | 477 | 390 | 420 | 451 | 611 | 713 | 633 | 715 | 582 | 595 | 406 | 512 | --- | 864 | 820 | --- | 864 | 851 | 864 | 851 | 864 | 768 | 797 | 738 | 696 | 1835 |
| ANNETTE ALASKA | 111 | 73 | 362 | 497 | 739 | 451 | 477 | 390 | 420 | 451 | 611 | 713 | 633 | 715 | 582 | 595 | 406 | 512 | --- | 864 | 820 | --- | 864 | 851 | 864 | 851 | 864 | 768 | 797 | 738 | 696 | 1835 |
| ANNETTE ALASKA | 111 | 73 | 362 | 497 | 739 | 451 | 477 | 390 | 420 | 451 | 611 | 713 | 633 | 715 | 582 | 595 | 406 | 512 | --- | 864 | 820 | --- | 864 | 851 | 864 | 851 | 864 | 768 | 797 | 738 | 696 | 1835 |
| ANNETTE ALASKA | 111 | 73 | 362 | 497 | 739 | 451 | 477 | 390 | 420 | 451 | 611 | 713 | 633 | 715 | 582 | 595 | 406 | 512 | --- | 864 | 820 | --- | 864 | 851 | 864 | 851 | 864 | 768 | 797 | 738 | 696 | 1835 |
| ANNETTE ALASKA | 111 | 73 | 362 | 497 | 739 | 451 | 477 | 390 | 420 | 451 | 611 | 713 | 633 | 715 | 582 | 595 | 406 | 512 | --- | 864 | 820 | --- | 864 | 851 | 864 | 851 | 864 | 768 | 797 | 738 | 696 | 1835 |
| ANNETTE ALASKA | 111 | 73 | 362 | 497 | 739 | 451 | 477 | 390 | 420 | 451 | 611 | 713 | 633 | 715 | 582 | 595 | 406 | 512 | --- | 864 | 820 | --- | 864 | 851 | 864 | 851 | 864 | 768 | 797 | 738 | 696 | 1835 |
| ANNETTE ALASKA | 111 | 73 | 362 | 497 | 739 | 451 | 477 | 390 | 420 | 451 | 611 | 713 | 633 | 715 | 582 | 595 | 406 | 512 | --- | 864 | 820 | --- | 864 | 851 | 864 | 851 | 864 | 768 | 797 | 738 | 696 | 1835 |
| ANNETTE ALASKA | 111 | 73 | 362 | 497 | 739 | 451 | 477 | 390 | 420 | 451 | 611 | 713 | 633 | 715 | 582 | 595 | 406 | 512 | --- | 864 | 820 | --- | 864 | 851 | 864 | 851 | 864 | 768 | 797 | 738 | 696 | 1835 |
| ANNETTE ALASKA | 111 | 73 | 362 | 497 | 739 | 451 | 477 | 390 | 420 | 451 | 611 | 713 | 633 | 715 | 582 | 595 | 406 | 512 | --- | 864 | 820 | --- | 864 | 851 | 864 | 851 | 864 | 768 | 797 | 738 | 696 | 1835 |
| ANNETTE ALASKA | 111 | 73 | 362 | 497 | 739 | 451 | 477 | 390 | 420 | 451 | 611 | 713 | 633 | 715 | 582 | 595 | 406 | 512 | --- | 864 | 820 | --- | 864 | 851 | 864 | 851 | 864 | 768 | 797 | 738 | 696 | 1835 |
| ANNETTE ALASKA | 111 | 73 | 362 | 497 | 739 | 451 | 477 | 390 | 420 | 451 | 611 | 713 | 633 | 715 | 582 | 595 | 406 | 512 | --- | 864 | 820 | --- | 864 | 851 | 864 | 851 | 864 | 768 | 797 | 738 | 696 | 1835 |
| ANNETTE ALASKA | 111 | 73 | 362 | 497 | 739 | 451 | 477 | 390 | 420 | 451 | 611 | 713 | 633 | 715 | 582 | 595 | 406 | 512 | --- | 864 | 820 | --- | 864 | 851 | 864 | 851 | 864 | 768 | 797 | 738 | 696 | 1835 |
| ANNETTE ALASKA | 111 | 73 | 362 | 497 | 739 | 451 | 477 | 390 | 420 | 451 | 611 | 713 | 633 | 715 | 582 | 595 | 406 | 512 | --- | 864 | 820 | --- | 864 | 851 | 864 | 851 | 864 | 768 | 797 | 738 | 696 | 1835 |
| ANNETTE ALASKA | 111 | 73 | 362 | 497 | 739 | 451 | 477 | 390 | 420 | 451 | 611 | 713 | 633 | 715 | 582 | 595 | 406 | 512 | --- | 864 | 820 | --- | 864 | 851 | 864 | 851 | 864 | 768 | 797 | 738 | 696 | 1835 |
| ANNETTE ALASKA | 111 | 73 | 362 | 497 | 739 | 451 | 477 | 390 | 420 | 451 | 611 | 713 | 633 | 715 | 582 | 595 | 406 | 512 | --- | 864 | 820 | --- | 864 | 851 | 864 | 851 | 864 | 768 | 797 | 738 | 696 | 1835 |
| ANNETTE ALASKA | 111 | 73 | 362 | 497 | 739 | 451 | 477 | 390 | 420 | 451 | 611 | 713 | 633 | 715 | 582 | 595 | 406 | 512 | --- | 864 | 820 | --- | 864 | 851 | 864 | 851 | 864 | 768 | 797 | 738 | 696 | 1835 |
| ANNETTE ALASKA | 111 | 73 | 362 | 497 | 739 | 451 | 477 | 390 | 420 | 451 | 611 | 713 | 633 | 715 | 582 | 595 | 406 | 512 | --- | 864 | 820 | --- | 864 | 851 | 864 | 851 | 864 | 768 | 797 | 738 | 696 | 1835 |
| ANNETTE ALASKA | 111 | 73 | 362 | 497 | 739 | 451 | 477 | 390 | 420 | 451 | 611 | 713 | 633 | 715 | 582 | 595 | 406 | 512 | --- | 864 | 820 | --- | 864 | 851 | 864 | 851 | 864 | 768 | 797 | 738 | 696 | 1835 |
| ANNETTE ALASKA | 111 | 73 | 362 | 497 | 739 | 451 | 477 | 390 | 420 | 451 | 611 | 713 | 633 | 715 | 582 | 595 | 406 | 512 | --- | 864 | 820 | --- | 864 | 851 | 864 | 851 | 864 | 768 | 797 | 738 | 696 | 1835 |
| ANNETTE ALASKA | 111 | 73 | 362 | 497 | 739 | 451 | 477 | 390 | 420 | 451 | 611 | 713 | 633 | 715 | 582 | 595 | 406 | 512 | --- | 864 | 820 | --- | 864 | 851 | 864 | 851 | 864 | 768 | 797 | 738 | 696 | 1835 |
| ANNETTE ALASKA | 111 | 73 | 362 | 497 | 739 | 451 | 477 | 390 | 420 | 451 | 611 | 713 | 633 | 715 | 582 | 595 | 406 | 512 | --- | 864 | 820 | --- | 864 | 851 | 864 | 851 | 864 | 768 | 797 | 738 | 696 | 1835 |
| ANNETTE ALASKA | 111 | 73 | 362 | 497 | 739 | 451 | 477 | 390 | 420 | 451 | 611 | 713 | 633 | 715 | 582 | 595 | 406 | 512 | --- | 864 | 820 | --- | 864 | 851 | 864 | 851 | 864 | 768 | 797 | 738 | 696 | 1835 |
| ANNETTE ALASKA | 111 | 73 | 362 | 497 | 739 | 451 | 477 | 390 | 420 | 451 | 611 | 713 | 633 | 715 | 582 | 595 | 406 | 512 | --- | 864 | 820 | --- | 864 | 851 | 864 | 851 | 864 | 768 | 797 | 738 | 696 | 1835 |
| ANNETTE ALASKA | 111 | 73 | 362 | 497 | 739 | 451 | 477 | 390 | 420 | 451 | 611 | 713 | 633 | 715 | 582 | 595 | 406 | 512 | --- | 864 | 820 | --- | 864 | 851 | 864 | 851 | 864 | 768 | 797 | 738 | 696 | 1835 |
| ANNETTE ALASKA | 111 | 73 | 362 | 497 | 739 | 451 | 477 | 390 | 420 | 451 | 611 | 713 | 633 | 715 | 582 | 595 | 406 | 512 | --- | 864 | 820 | --- | 864 | 851 | 864 | 851 | 864 | 768 | 797 | 738 | 696 | 1835 |
| ANNETTE ALASKA | 111 | 73 | 362 | 497 | 739 | 451 | 477 | 390 | 420 | 451 | 611 | 713 | 633 | 715 | 582 | 595 | 406 | 512 | --- | 864 | 820 | --- | 864 | 851 | 864 | 851 | 864 | 768 | 797 | 738 | 696 | 1835 |
| ANNETTE ALASKA | 111 | 73 | 362 | 497 | 739 | 451 | 477 | 390 | 420 | 451 | 611 | 713 | 633 | 715 | 582 | 595 | 406 | 512 | --- | 864 | 820 | --- | 864 | 851 | 864 | 851 | 864 | 768 | 797 | 738 | 696 | 1835 |
| ANNETTE ALASKA | 111 | 73 | 362 | 497 | 739 | 451 | 477 | 390 | 420 | 451 | 611 | 713 | 633 | 715 | 582 | 595 | 406 | 512 | --- | 864 | 820 | --- | 864 | 851 | 864 | 851 | 864 | 768 | 797 | 738 | 696 | 1835 |
| ANNETTE ALASKA | 111 | 73 | 362 | 497 | 739 | 451 | 477 | 390 | 420 | 451 | 611 | 713 | 633 | 715 | 582 | 595 | 406 | 512 | --- | 864 | 820 | --- | 864 | 851 | 864 | 851 | 864 | 768 | 797 | 738 | 696 | 1835 |
| ANNETTE ALASKA | 111 | 73 | 362 | 497 | 739 | 451 | 477 | 390 | 420 | 451 | 611 | 713 | 633 | 715 | 582 | 595 | 406 | 512 | --- | 864 | 820 | --- | 864 | 851 | 864 | 851 | 864 | 768 | 797 | 738 | 696 | 1835 |
| ANNETTE ALASKA | 111 | 73 | 362 | 497 | 739 | 451 | 477 | 390 | 420 | 451 | 611 | 713 | 633 | 715 | 582 | 595 | 406 | 512 | --- | 864 | 820 | --- | 864 | 851 | 864 | 851 | 864 | 768 | 797 | 738 | 696 | 1835 |
| ANNETTE ALASKA | 111 | 73 | 362 | 497 | 739 | 451 | 477 | 390 | 420 | 451 | 611 | 713 | 633 | 715 | 582 | 595 | 406 | 512 | --- | 864 | 820 | --- | 864 | 851 | 864 | 851 | 864 | 768 | 797 | 738 | 696 | 1835 |
| ANNETTE ALASKA | 111 | 73 | 362 | 497 | 739 | 451 | 477 | 390 | 420 | 451 | 611 | 713 | 633 | 715 | 582 | 595 | 406 | 512 | --- | 864 | 820 | --- | 864 | 851 | 864 | 851 | 864 | 768 | 797 | 738 | 696 | 1835 |
| ANNETTE ALASKA | 111 | 73 | 362 | 497 | 739 | 451 | 477 | 390 | 420 | 451 | 611 | 713 | 633 | 715 | 582 | 595 | 406 | 512 | --- | 864 | 820 | --- | 864 | 851 | 864 | 851 | 864 | 768 | 797 | 738 | 696 | 1835 |
| ANNETTE ALASKA | 111 | 73 | 362 | 497 | 739 | 451 | 477 | 390 | 420 | 451 | 611 | 713 | 633 | 715 | 582 | 595 | 406 | 512 | --- | 864 | 820 | --- | 864 | 851 | 864 | 851 | 864 | 768 | 797 | 738 | 696 | 1835 |
| ANNETTE ALASKA | 111 | 73 | 362 | 497 | 739 | 451 | 477 | 390 | 420 | 451 | 611 | 713 | 633 | 715 | 582 | 595 | 406 | 512 | --- | 864 | 820 | --- | 864 | 851 | 864 | 851 | 864 | 768 | 797 | 738 | 696 | 1835 |
| ANNETTE ALASKA | 111 | 73 | 362 | 497 | 739 | 451 | 477 | 390 | 420 | 451 | 611 | 713 | 633 | 715 | 582 | 595 | 406 | 512 | --- | 864 | 820 | --- | 864 | 851 | 864 | 851 | 864 | 768 | 797 | 738 | 696 | 1835 |
| ANNETTE ALASKA | 111 | 73 | 362 | 497 | 739 | 451 | 477 | 390 | 420 | 451 | 611 | 713 | 633 | 715 | 582 | 595 | 406 | 512 | --- | 864 | 820 | --- | 864 | 851 | 864 | 851 | 864 | 768 | 797 | 738 | 696 | 1835 |
| ANNETTE ALASKA | 111 | 73 | 362 | 497 | 739 | 451 | 477 | 390 | 420 | 451 | 611 | 713 | 633 | 715 | 582 | 595 | 406 | 512 | --- | 864 | 820 | --- | 864 | 851 | 864 | 851 | 864 | 768 | 797 | 73 | | |

[illegible]

The solar radiation data in this table form the basis for the analyses in Charts VII, A, and B of this publication. The analyses include adjustments required to bring station records to approximately the same level of calibration.

SOLAR RADIATION TOTALS

Daily totals and monthly averages of solar radiation (direct and diffuse) received on a horizontal surface, tabulated in langleys.

JUNE 1970

| Station | Day of month | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Avg. | | | | |
|-----------------------|--------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | | | | | |
| PALMER ARIZ. STATION | 515 | 523 | 525 | 528 | 530 | 532 | 534 | 536 | 538 | 540 | 542 | 544 | 546 | 548 | 550 | 552 | 554 | 556 | 558 | 560 | 562 | 564 | 566 | 568 | 570 | 572 | 574 | 576 | 578 | 580 | 582 | 584 | 586 | 588 | 590 | |
| PORTLAND MAINE | 492 | 494 | 496 | 498 | 500 | 502 | 504 | 506 | 508 | 510 | 512 | 514 | 516 | 518 | 520 | 522 | 524 | 526 | 528 | 530 | 532 | 534 | 536 | 538 | 540 | 542 | 544 | 546 | 548 | 550 | 552 | 554 | 556 | 558 | 560 | 562 |
| RAPID CITY S.DAK. | 542 | 544 | 546 | 548 | 550 | 552 | 554 | 556 | 558 | 560 | 562 | 564 | 566 | 568 | 570 | 572 | 574 | 576 | 578 | 580 | 582 | 584 | 586 | 588 | 590 | 592 | 594 | 596 | 598 | 600 | 602 | 604 | 606 | 608 | 610 | 612 |
| RENO NEVADA | 642 | 644 | 646 | 648 | 650 | 652 | 654 | 656 | 658 | 660 | 662 | 664 | 666 | 668 | 670 | 672 | 674 | 676 | 678 | 680 | 682 | 684 | 686 | 688 | 690 | 692 | 694 | 696 | 698 | 700 | 702 | 704 | 706 | 708 | 710 | 712 |
| RICHLAND 25 NW WASH. | 742 | 744 | 746 | 748 | 750 | 752 | 754 | 756 | 758 | 760 | 762 | 764 | 766 | 768 | 770 | 772 | 774 | 776 | 778 | 780 | 782 | 784 | 786 | 788 | 790 | 792 | 794 | 796 | 798 | 800 | 802 | 804 | 806 | 808 | 810 | 812 |
| RIVERSIDE CALIFORNIA | 761 | 763 | 765 | 767 | 769 | 771 | 773 | 775 | 777 | 779 | 781 | 783 | 785 | 787 | 789 | 791 | 793 | 795 | 797 | 799 | 801 | 803 | 805 | 807 | 809 | 811 | 813 | 815 | 817 | 819 | 821 | 823 | 825 | 827 | 829 | 831 |
| RUSTON LOUISIANA | 433 | 435 | 437 | 439 | 441 | 443 | 445 | 447 | 449 | 451 | 453 | 455 | 457 | 459 | 461 | 463 | 465 | 467 | 469 | 471 | 473 | 475 | 477 | 479 | 481 | 483 | 485 | 487 | 489 | 491 | 493 | 495 | 497 | 499 | 501 | 503 |
| SAINT CLOUD MINN. | 552 | 554 | 556 | 558 | 560 | 562 | 564 | 566 | 568 | 570 | 572 | 574 | 576 | 578 | 580 | 582 | 584 | 586 | 588 | 590 | 592 | 594 | 596 | 598 | 600 | 602 | 604 | 606 | 608 | 610 | 612 | 614 | 616 | 618 | 620 | 622 |
| SALT LAKE CITY | 823 | 825 | 827 | 829 | 831 | 833 | 835 | 837 | 839 | 841 | 843 | 845 | 847 | 849 | 851 | 853 | 855 | 857 | 859 | 861 | 863 | 865 | 867 | 869 | 871 | 873 | 875 | 877 | 879 | 881 | 883 | 885 | 887 | 889 | 891 | 893 |
| SAN ANTONIO TEXAS | 367 | 369 | 371 | 373 | 375 | 377 | 379 | 381 | 383 | 385 | 387 | 389 | 391 | 393 | 395 | 397 | 399 | 401 | 403 | 405 | 407 | 409 | 411 | 413 | 415 | 417 | 419 | 421 | 423 | 425 | 427 | 429 | 431 | 433 | 435 | 437 |
| SANTA MARIA CALIF. | 715 | 717 | 719 | 721 | 723 | 725 | 727 | 729 | 731 | 733 | 735 | 737 | 739 | 741 | 743 | 745 | 747 | 749 | 751 | 753 | 755 | 757 | 759 | 761 | 763 | 765 | 767 | 769 | 771 | 773 | 775 | 777 | 779 | 781 | 783 | 785 |
| SAULT STE MARIE MICH. | 195 | 197 | 199 | 201 | 203 | 205 | 207 | 209 | 211 | 213 | 215 | 217 | 219 | 221 | 223 | 225 | 227 | 229 | 231 | 233 | 235 | 237 | 239 | 241 | 243 | 245 | 247 | 249 | 251 | 253 | 255 | 257 | 259 | 261 | 263 | 265 |
| SEATTLE TACOMA WASH. | 747 | 749 | 751 | 753 | 755 | 757 | 759 | 761 | 763 | 765 | 767 | 769 | 771 | 773 | 775 | 777 | 779 | 781 | 783 | 785 | 787 | 789 | 791 | 793 | 795 | 797 | 799 | 801 | 803 | 805 | 807 | 809 | 811 | 813 | 815 | 817 |
| SEATTLE WASH. UNIV. | 602 | 604 | 606 | 608 | 610 | 612 | 614 | 616 | 618 | 620 | 622 | 624 | 626 | 628 | 630 | 632 | 634 | 636 | 638 | 640 | 642 | 644 | 646 | 648 | 650 | 652 | 654 | 656 | 658 | 660 | 662 | 664 | 666 | 668 | 670 | 672 |
| SPOKANE WASHINGTON | 715 | 717 | 719 | 721 | 723 | 725 | 727 | 729 | 731 | 733 | 735 | 737 | 739 | 741 | 743 | 745 | 747 | 749 | 751 | 753 | 755 | 757 | 759 | 761 | 763 | 765 | 767 | 769 | 771 | 773 | 775 | 777 | 779 | 781 | 783 | 785 |
| STERLING VIRGINIA | 596 | 598 | 600 | 602 | 604 | 606 | 608 | 610 | 612 | 614 | 616 | 618 | 620 | 622 | 624 | 626 | 628 | 630 | 632 | 634 | 636 | 638 | 640 | 642 | 644 | 646 | 648 | 650 | 652 | 654 | 656 | 658 | 660 | 662 | 664 | 666 |
| SWAN ISLAND W.I. | 610 | 612 | 614 | 616 | 618 | 620 | 622 | 624 | 626 | 628 | 630 | 632 | 634 | 636 | 638 | 640 | 642 | 644 | 646 | 648 | 650 | 652 | 654 | 656 | 658 | 660 | 662 | 664 | 666 | 668 | 670 | 672 | 674 | 676 | 678 | 680 |
| TAMPA FLORIDA | 523 | 525 | 527 | 529 | 531 | 533 | 535 | 537 | 539 | 541 | 543 | 545 | 547 | 549 | 551 | 553 | 555 | 557 | 559 | 561 | 563 | 565 | 567 | 569 | 571 | 573 | 575 | 577 | 579 | 581 | 583 | 585 | 587 | 589 | 591 | 593 |
| TUCSON ARIZONA | 623 | 625 | 627 | 629 | 631 | 633 | 635 | 637 | 639 | 641 | 643 | 645 | 647 | 649 | 651 | 653 | 655 | 657 | 659 | 661 | 663 | 665 | 667 | 669 | 671 | 673 | 675 | 677 | 679 | 681 | 683 | 685 | 687 | 689 | 691 | 693 |
| WAKE ISLAND PACIFIC | 667 | 669 | 671 | 673 | 675 | 677 | 679 | 681 | 683 | 685 | 687 | 689 | 691 | 693 | 695 | 697 | 699 | 701 | 703 | 705 | 707 | 709 | 711 | 713 | 715 | 717 | 719 | 721 | 723 | 725 | 727 | 729 | 731 | 733 | 735 | 737 |

Note.--Langley is the unit used to denote one gram calorie per square centimeter.

Values with an asterisk are interpolated.

The solar radiation data in this table form the basis for the analyses in Charts VII. A. and B. of this publication. The analyses include adjustments required to bring station records to approximately the same level of calibration.

JUNE 1971

Net radiation in langleya per day (8 a. m. to 8 p. m.) at Palmir. Alaska.

| Date | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | Avg. |
|--------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----|------|
| Angles | 2.02 | 2.66 | 1.90 | 1.86 | 2.99 | 3.06 | 2.58 | 2.27 | 2.15 | 1.82 | 1.86 | 1.90 | 1.61 | 2.41 | 1.84 | 2.21 | 1.80 | 1.41 | 2.43 | 2.37 | 2.28 | 2.37 | 2.42 | 1.58 | 1.62 | 1.63 | 2.08 | 1.47 | 2.50 | 2.04 | | |

The measurement is made with a CSIRO FUNK net exchange radiometer over a plot of sod. The value represents the total incoming minus the total outgoing radiation of all wave lengths.

These data are of an experimental nature and are published as received from the Palmer Exp. Station. The instrument with which they were measured has not been checked by the NOAA National Weather Service.

SOLAR ULTRA-VIOLET RADIATION DATA

only a few hundred years ago, the average American lived

TOTAL OZONE DATA

these provisional size data are obtained from measurements made with a Jobin-Yvon spectrophotometer, and are applicable approximately to local apparent noon. The data are presented in the code .S.W. as defined in the August 1962 WHO Circular entitled "PUBLICATION OF DATA FOR METHYLOGLUCAL RESEARCH: WORLD OZONE DATA."

1011 MILLINGTONS

SOLAR RADIATION TOTALS

Daily totals and monthly averages of solar radiation (direct and diffuse) received on a horizontal surface, tabulated in Langley's.

DEFINITION DATA

| Station | Day of month | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|--------------|-----|-----|-----|-----|------|-----|-----|-----|-----|------|-----|------|------|-----|------|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|--|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | Avg. | |
| SEPTEMBER 1969 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| STATE COLLEGE, PENN. | --- | --- | --- | --- | --- | --- | --- | --- | 179 | 141 | 205 | 227 | 209 | 190 | 189 | 160 | 155 | 212 | 212 | 79 | 225 | 212 | 166 | --- | 171 | 241 | 91 | 111 | 181 | 144 | --- | 144 | |
| OCTOBER 1969 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PULLMAN WASHINGTON | --- | 71 | 365 | 356 | 484 | 548 | 423 | 150 | 168 | 682 | 210 | 368 | 340 | 287 | 331 | 144 | 155 | 154 | 248 | 191 | 267 | 272 | 174 | 165 | 254 | 210 | 53 | 19 | 157 | 144 | 91 | 224 | |
| NOVEMBER 1969 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PULLMAN WASHINGTON | 192 | 236 | 165 | 42 | 141 | 131 | 203 | 203 | 117 | 149 | 185 | 157 | 68* | 170* | --- | --- | --- | 71* | 164 | 142* | 102 | 108 | 184 | 62 | 183 | 134 | 167 | 194 | 167 | 67 | 141* | | |
| SEATTLE WASH. UNIV. | 143 | 45 | 61 | --- | 59 | 74 | 15 | 6 | 4 | 6 | 55 | 6 | 25 | 3 | 25 | 76 | 75 | 65 | 34 | --- | 30 | 38 | --- | 93 | 48 | 95 | 103 | 51 | 46 | 74 | 42 | | |
| DECEMBER 1969 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PAGE ARIZONA | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | |
| PULLMAN WASHINGTON | 91 | 55 | 31 | 27 | 33 | 38 | 46 | 46 | 46* | 137 | 31 | 45 | 34 | 19 | 137 | 49 | 76* | 34 | 37 | 86 | 20 | 63 | 101 | 156 | 65 | 53 | 92 | 85 | 61 | 51 | 43 | | |
| SEATTLE WASH. UNIV. | 92 | 76 | 2 | 7 | 35 | 33 | 27 | --- | 22 | 23 | --- | --- | --- | --- | 59 | 71 | 4 | 9 | --- | 23 | 8 | --- | 10 | 49 | 5 | 15 | 5 | 26 | 8 | 14 | 16 | | |
| BLUE HILL MASS. | 40 | 192 | 116 | 184 | 171 | 196 | 166 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | |
| JANUARY 1970 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BROOKINGS SOUTH DAK. | 132 | 143 | 158 | 252 | 247 | 163 | 224 | 188 | 224 | 194 | 295 | 206 | 129 | 142 | 97 | 111 | 193 | 173 | 240 | 243 | 408 | 123 | 292 | 214 | 125 | 154 | 164 | 101 | 258 | 236 | 248 | 205 | |
| INYOEN CALIFORNIA | 280 | 288 | 298 | 299 | 281 | 294 | 217 | 174 | 125 | 349 | 97 | 98 | 173 | 152 | 187 | 152 | 296 | 184 | 286 | 281 | 194 | 204 | 228 | 301 | 215 | 308 | 295 | 343 | 350 | 351 | 333 | 244 | |
| LARAMIE WYOMING | 188 | 206 | 219 | 163 | 295 | 241 | 239 | 206 | 111 | 149 | 133 | 276 | 191 | 125 | 185 | 105 | 105 | 183 | 66 | 136 | 61 | 136 | 215 | 161 | 212 | 108 | 215 | 167 | 228 | 199 | 286 | 179 | |
| PULLMAN WASHINGTON | 71 | 52 | 56 | 78 | 211 | 177 | 147 | 89 | 38 | 171 | 139* | 43* | 35 | 35 | 75 | 41 | 95 | 53 | 57 | 136 | 61 | 34 | 30 | 30 | 34 | 34 | 77 | 176 | 178 | 211 | 39 | 88* | |
| SEATTLE WASH. UNIV. | 5 | 26 | 26 | 67 | 55 | 139 | 74 | 27 | 19 | 104 | 101 | 32 | 19 | 18 | 109 | 48 | 136 | 58 | 47 | 135 | 13 | 69 | 37 | 112 | 26 | 61 | 118 | 114 | 150 | 164 | 66 | | |
| LOS ANGELES CALIF. | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | |
| TALLAHASSEE FLORIDA | 57 | 249 | 152 | 324 | 161 | 38 | 328 | 215 | 354 | 344 | 58 | 66 | 230 | 172 | 95 | 96 | 59 | 110 | 303 | 193 | 354 | 544 | 145 | 360 | 305 | 193 | 91 | 329 | 313 | 384 | 389 | 223 | |
| FEBRUARY 1970 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BROOKINGS SOUTH DAK. | 154 | 293 | 268 | 233 | 265 | 247 | 181 | 228 | 185 | 196 | 251 | 168 | 282 | 298 | 302 | 304 | 245 | 274 | 327 | 333 | 352 | 362 | 356 | 281 | 362 | 188 | 326 | 125 | 377 | 354 | 264 | | |
| GAINESVILLE FLORIDA | 304 | 95 | 99 | 451 | 430 | 138 | 327 | 468 | 327 | 445 | 378 | 364 | 493 | 438 | 298 | 60 | 163 | 226 | 478 | 500 | 500 | 486 | 256 | 480 | 157 | 545 | 377 | 377 | 354 | 338 | 355 | | |
| INYOEN CALIFORNIA | 319 | 951 | 297 | 262 | 343 | 318 | 353 | 303 | 119 | 79 | 227 | 337 | 349 | 337 | 390 | 416 | 425 | 422 | 440 | 392 | 392 | 396 | 424 | 401 | 435 | 398 | 385 | 98 | 228 | 274 | 338 | | |
| LARAMIE WYOMING | 223 | 256 | 180 | 244 | 132 | 337 | 248 | 332 | 307 | 293 | 326 | 179 | 185 | 257 | 330 | 262 | 171 | 286 | 363 | 356 | 343 | 281 | 203 | 223 | 400 | 389 | 327 | 228 | 274 | 274 | 274 | | |
| PALMER ALASKA | 112 | 40 | 57 | 61 | 36 | 35 | 44 | 34 | 70 | 79 | 24 | 44 | 108 | 63 | 72 | 104 | 87 | 101 | 110 | 73 | 51 | 82 | 99 | 26 | 96 | 92 | 59 | 85 | 170 | 69 | 69 | | |
| SEATTLE WASH. UNIV. | 154 | 29 | 183 | 58 | 44 | 136 | 216 | 220 | 209 | 198 | 99 | 91 | 51 | 139 | 33 | 80 | 107 | 60 | 255 | 268 | 273 | 192 | 277 | 268 | 289 | 293 | 206 | 320 | 320 | 170 | 170 | | |
| FAIRBANKS ALASKA | 29 | 20 | 32 | 25 | 24 | 39 | 25 | 75 | 74 | 58 | 59 | 80 | 72 | 84 | 51 | 81 | 92 | 75 | 106 | 79 | 106 | 83 | 62 | 45 | 126 | 95 | 53 | 124 | 82 | 67 | 67 | | |
| LOS ANGELES CALIF. | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | |
| MARCH 1970 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LARAMIE WYOMING | 230 | 169 | 348 | 301 | 180 | 421 | 391 | 311 | 176 | 300 | 411 | 463 | 323 | 308 | 150 | 325 | 138 | 324 | 475 | 536 | 594 | 506 | 453 | 374 | 544 | 329 | 539 | 423 | 453 | 322 | 461 | 357 | |
| PULLMAN WASHINGTON | 145 | 249 | 237 | 357 | 278 | 151 | 184 | 320 | 390 | 381 | 203 | 154 | 179* | 89 | 164 | 179* | 351 | 389 | 427 | 436 | 414 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | |
| RICHLAND 25 NW WASH. | 88 | 317 | 331 | 358 | 332 | 151 | 188 | 421 | 383 | 429 | 295 | 106 | 357 | 218 | 113 | 147 | 214 | 400 | 378 | 253 | 131 | 197 | 84 | 362 | 212 | 302 | 218 | 229 | 359 | 467 | 405 | 352 | |
| SEATTLE WASH. UNIV. | 321 | 159 | 262 | 358 | 183 | 442 | 260 | 333 | 261 | 364 | 165 | 66 | 285 | 218 | 113 | 147 | 214 | 400 | 378 | 253 | 131 | 197 | 84 | 362 | 212 | 302 | 218 | 229 | 359 | 467 | 405 | 352 | |
| STATE COLLEGE PENN. | 313 | 24 | 17 | 23 | 56 | 235 | 72 | 296 | 291 | 274 | 303 | 33 | 194 | 246 | 265 | 266 | 268 | 180 | 160 | 210 | 130 | 41 | 177 | 158 | 241 | 128 | 264 | 261 | 82 | 365 | 237 | 177 | |
| BLUE HILL MASS. | 310 | 6 | 796 | 330 | 84 | 92 | 295 | 357 | 427 | 422 | 439 | 394 | 48 | 112 | 407 | 371 | 460 | 259 | 223 | 220 | 236 | 369 | 106 | 320 | 475 | 158 | 506 | 375 | 73 | 560 | 78 | 292 | |
| APRIL 1970 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FLAMING GORGE UTAH | 569 | 560 | 380 | 633 | 441 | 649 | 33 | 457 | 646 | 476 | 440 | 561 | 417 | 392 | 305 | 596 | 248 | 417 | 239 | 373 | 453 | 296 | 605 | 597 | 536 | 551 | 301 | 241 | 489 | 475 | 446 | | |
| PAGE ARIZONA | 671 | 668 | 681 | 691 | 687 | 684 | 542 | 602 | 671 | 666 | 679 | 718 | 547 | 681 | 724 | 600 | 335 | 655 | 595 | 557 | 586 | 597 | 705 | 699 | 701 | 688 | 520 | 564 | 556 | 640 | 637 | | |
| PULLMAN WASHINGTON | 258 | 332 | 491 | 224 | 288 | 150* | 551 | 469 | 107 | 372 | 400 | 424 | 460 | 268 | 396 | 512 | 346 | 168 | 248 | 484 | 403 | 353 | 211 | 254 | 336 | 242 | 353 | 353 | 355 | 462 | 333* | | |
| SEATTLE WASH. UNIV. | 75 | 439 | 367 | 131 | 122 | 247 | 265 | 214 | 267 | 302 | 333 | 323 | 487 | 531 | 487 | 534 | 496 | 137 | 235 | 235 | 183 | 298 | 305 | 522 | 337 | 415 | 508 | 445 | 387 | 316 | 316 | | |
| LOS ANGELES CALIF. | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | |
| TALLAHASSEE FLORIDA | 471 | 390 | 503 | 271 | 122 | 584 | 608 | 589 | 561 | 335 | 352 | 302 | 572 | 578 | 599 | 560 | 528 | 483 | 500 | 558 | 456 | 555 | 568 | 484 | 431 | 319 | 491 | 499 | 440 | 456 | 472 | | |
| MAY 1970 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DAVIS CALIFORNIA | 704 | 683 | 668 | 624 | 608 | 270 | 649 | 397 | 680 | 712 | 566 | 471 | 715 | 731 | 740 | 715 | 710 | 597 | 729 | 727 | 746 | 486 | 760 | 702 | 740 | 736 | 712 | 725 | 718 | 746 | 749 | 662 | |
| PROSSER WASHINGTON | 662 | 668 | 625 | 473 | 607 | 481 | 651 | 278 | 601 | 454 | 621 | 406 | 720 | 688 | 708 | 712 | 689 | 686 | 704 | 719 | 703 | 490 | 745 | 717 | 688 | 707 | 702 | 615 | | | | | |

These provisional ozone data are obtained from measurements made with a Dobson ozone spectrophotometer, and are applicable approximately to local apparent noon. The data are presented in the code, S D U 2 defined in the August 1962 WMO circular entitled "PUBLICATION OF DATA FOR METEOROLOGICAL RESEARCH, WORLD OZONE DATA."

TABLE 1. *Continued*[illegible]

CORRECTIONS

January, 1970 Page 36

Solar Radiation Totals

| | |
|-----------------|-----|
| Barrow, Average | 2 |
| Boise, Average | 109 |

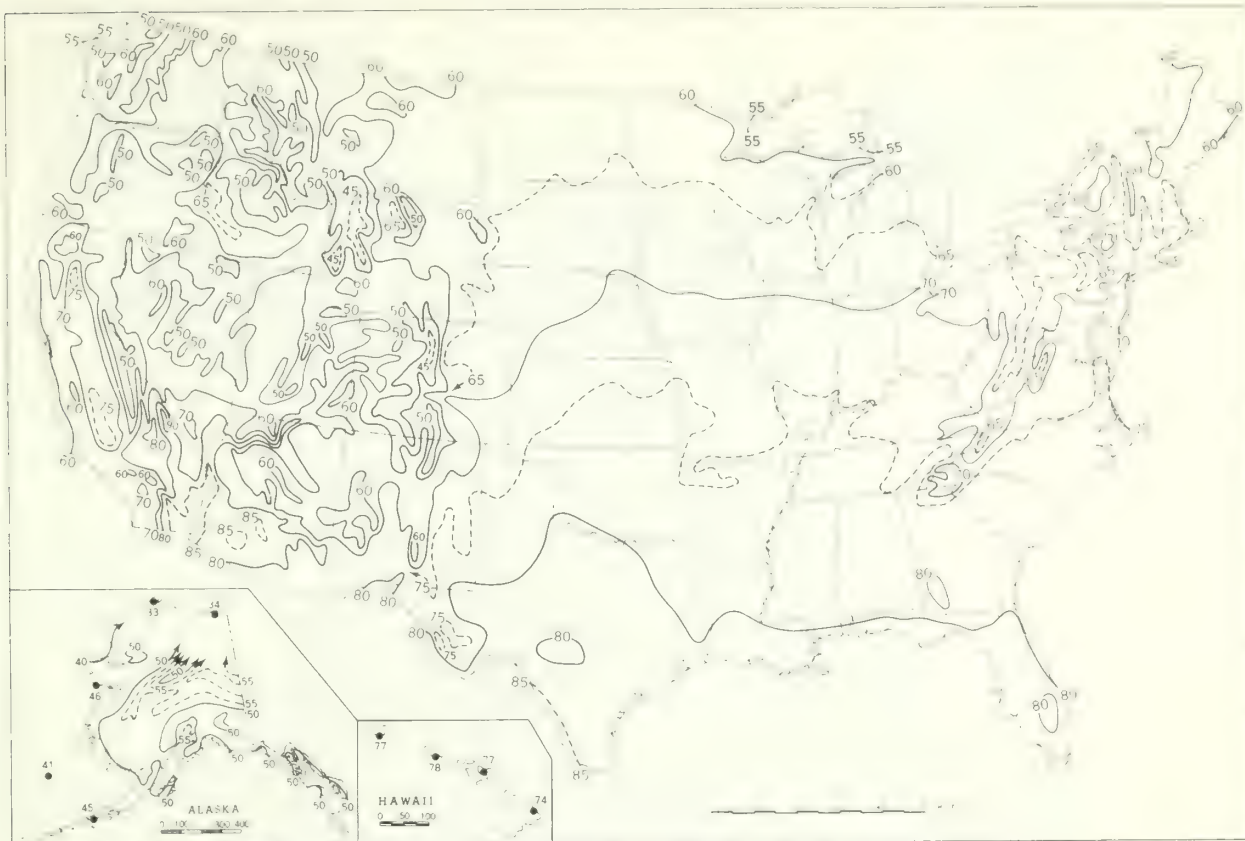
Annual - 1969, Page 12

Excessive Short Duration Rainfall

NANTUCKET

| | | | | | | | | | | | | | |
|-----|----|------|------|------|------|------|------|------|------|------|------|------|------|
| JUL | 21 | .26 | .36 | .39 | .41 | .42 | .43 | .44 | .45 | .48 | .49 | .49 | .53 |
| SEP | 8 | .39 | .60 | .65 | .68 | .80 | .86 | .91 | .95 | .96 | .98 | 1.00 | 1.00 |
| SEP | 9 | .43* | .83* | 1.01 | 1.12 | 1.20 | 1.22 | 1.29 | 1.48 | 1.89 | 2.35 | 2.58 | 2.90 |
| SEP | 26 | .17 | .30 | .41 | .53 | .73 | .90 | .96 | .98 | .99 | 1.11 | 1.35 | 1.38 |

Chart 1. A. Normal Daily Average Temperature (°F. 1931-60), June.



B. Temperature Departure from 30 - Year Mean (°F 1931-60), June 1970.

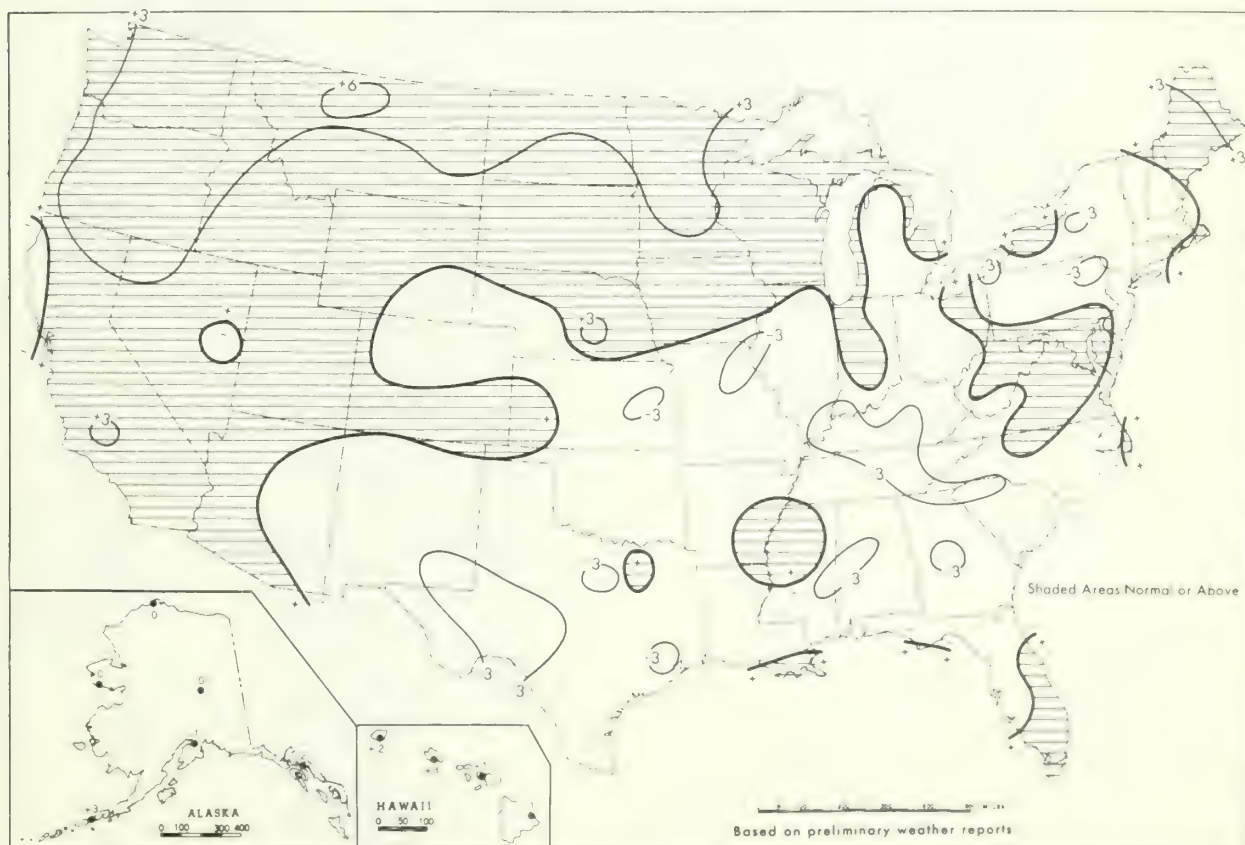


Chart II. Total Precipitation (Inches), June 1970.

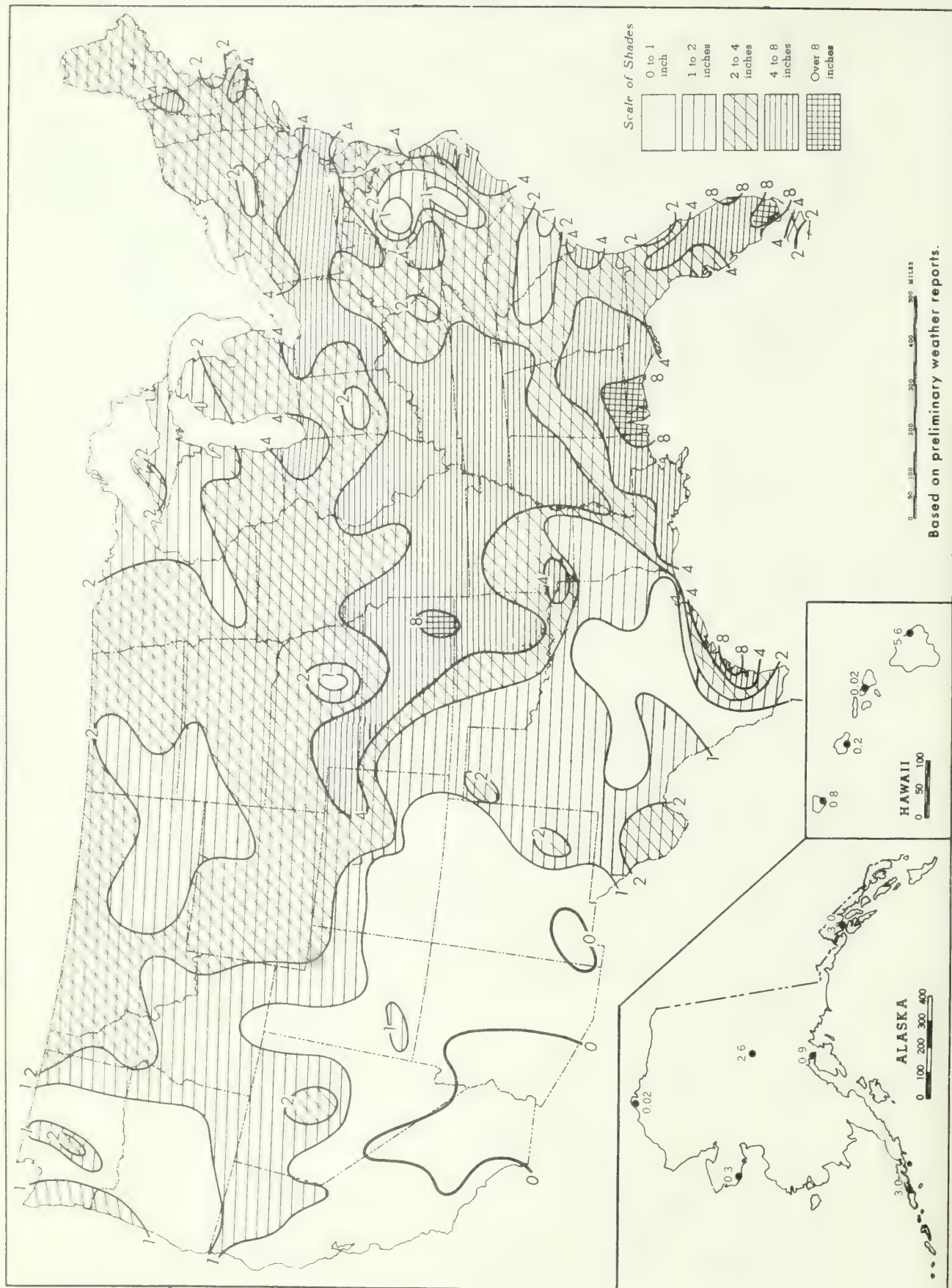


Chart III. Percentage of Normal Precipitation, June 1970.

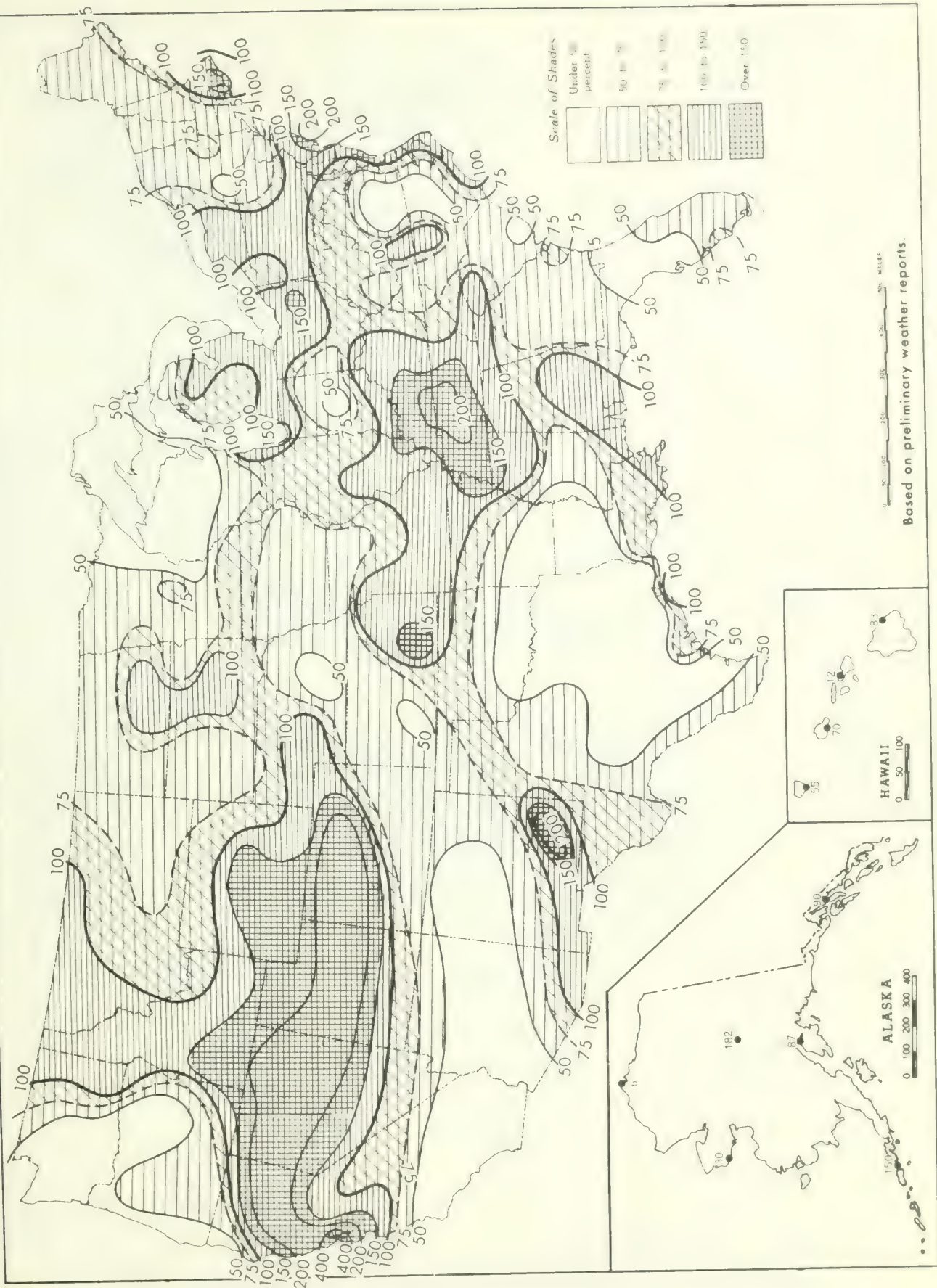
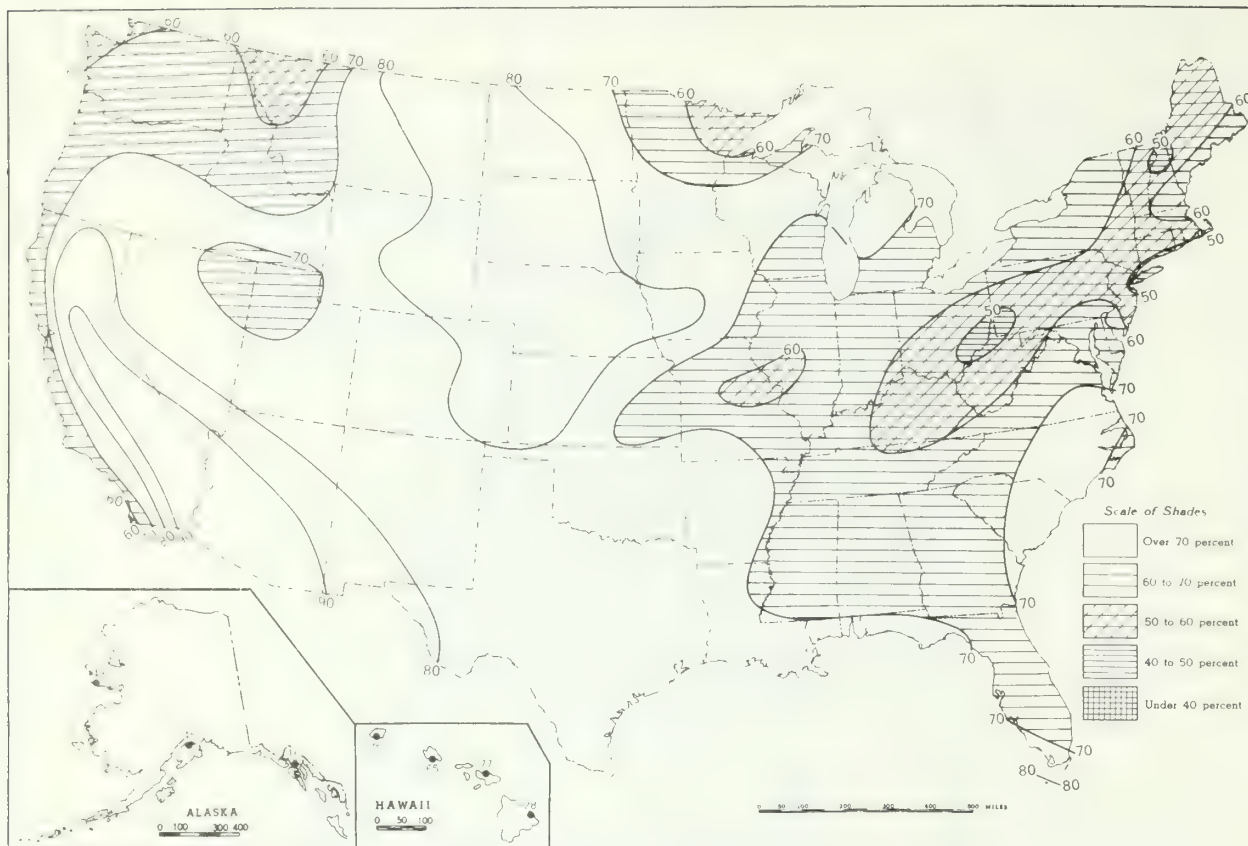
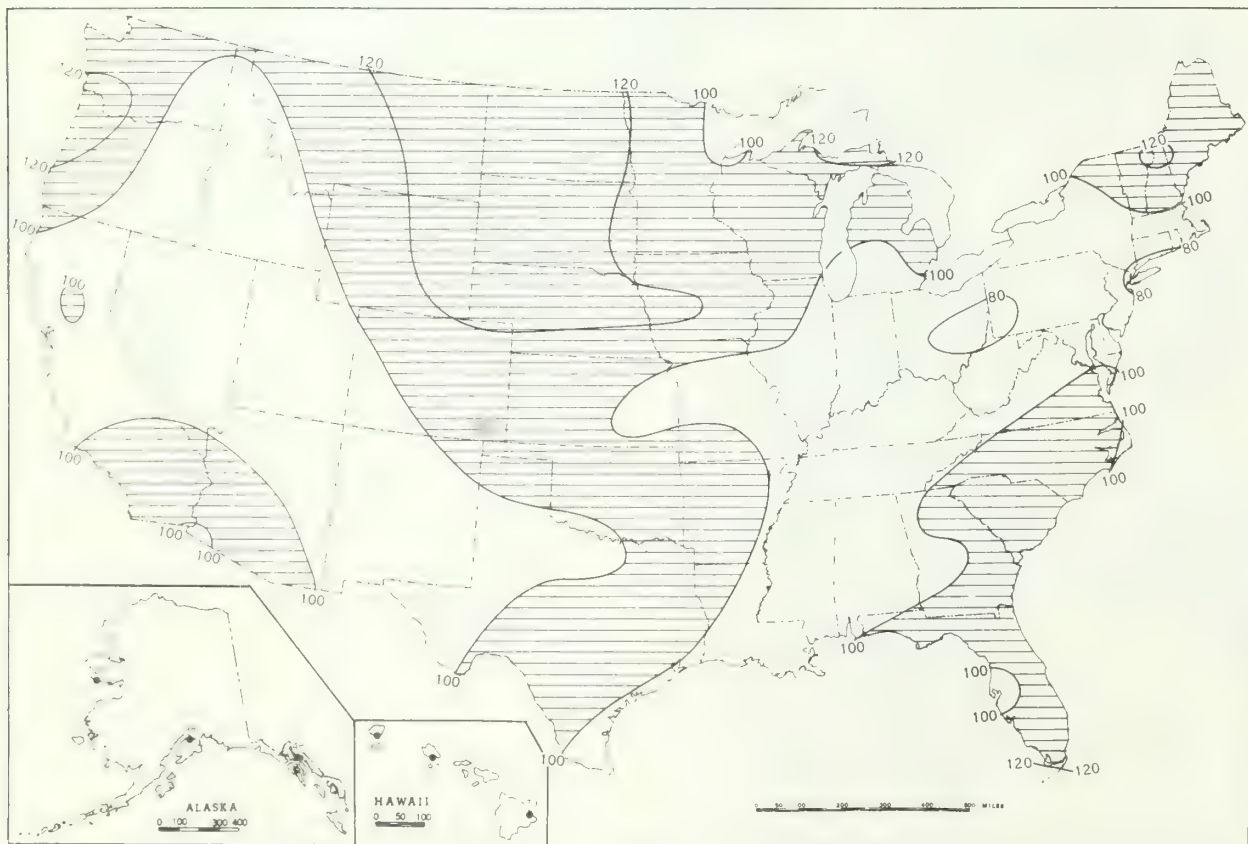


Chart VI. A. Percentage of Possible Sunshine, June 1970.

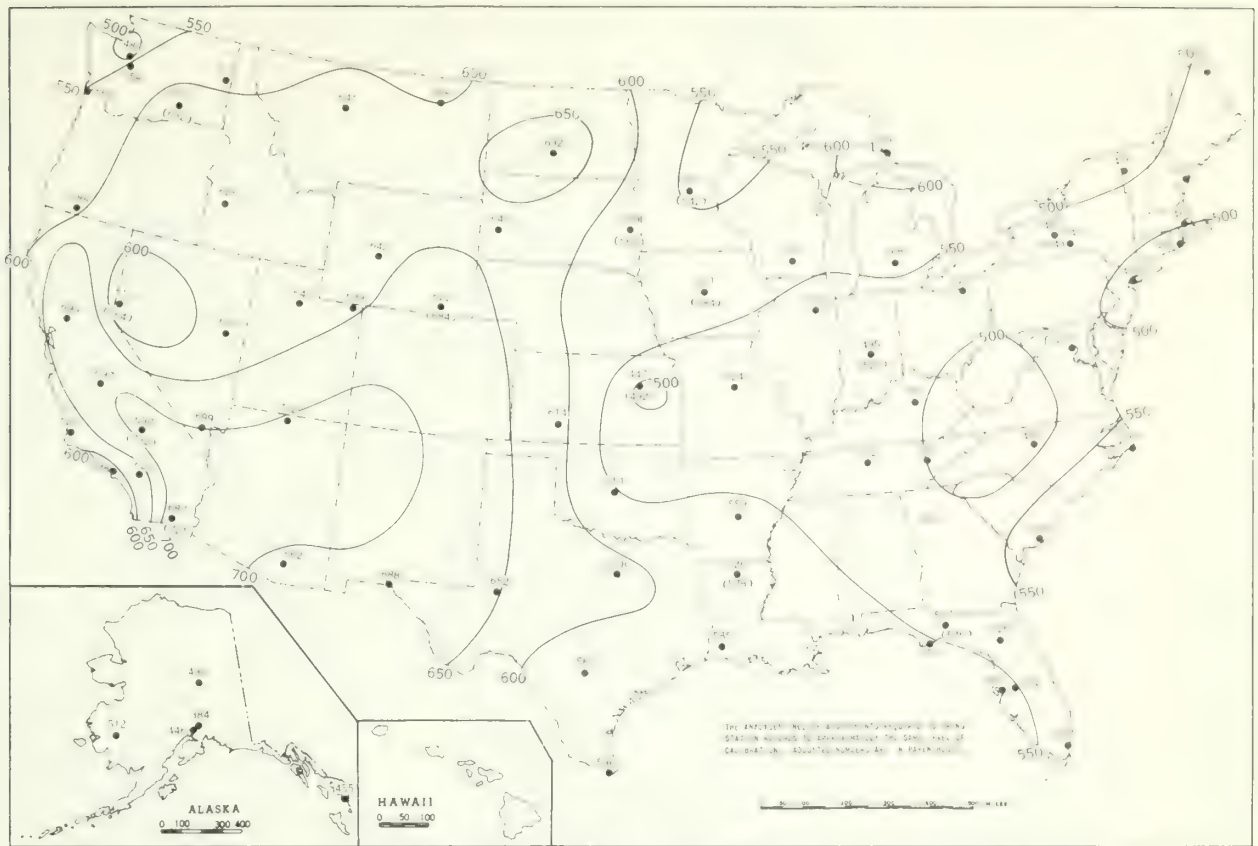


B. Percentage of Mean Monthly Sunshine, June 1970.

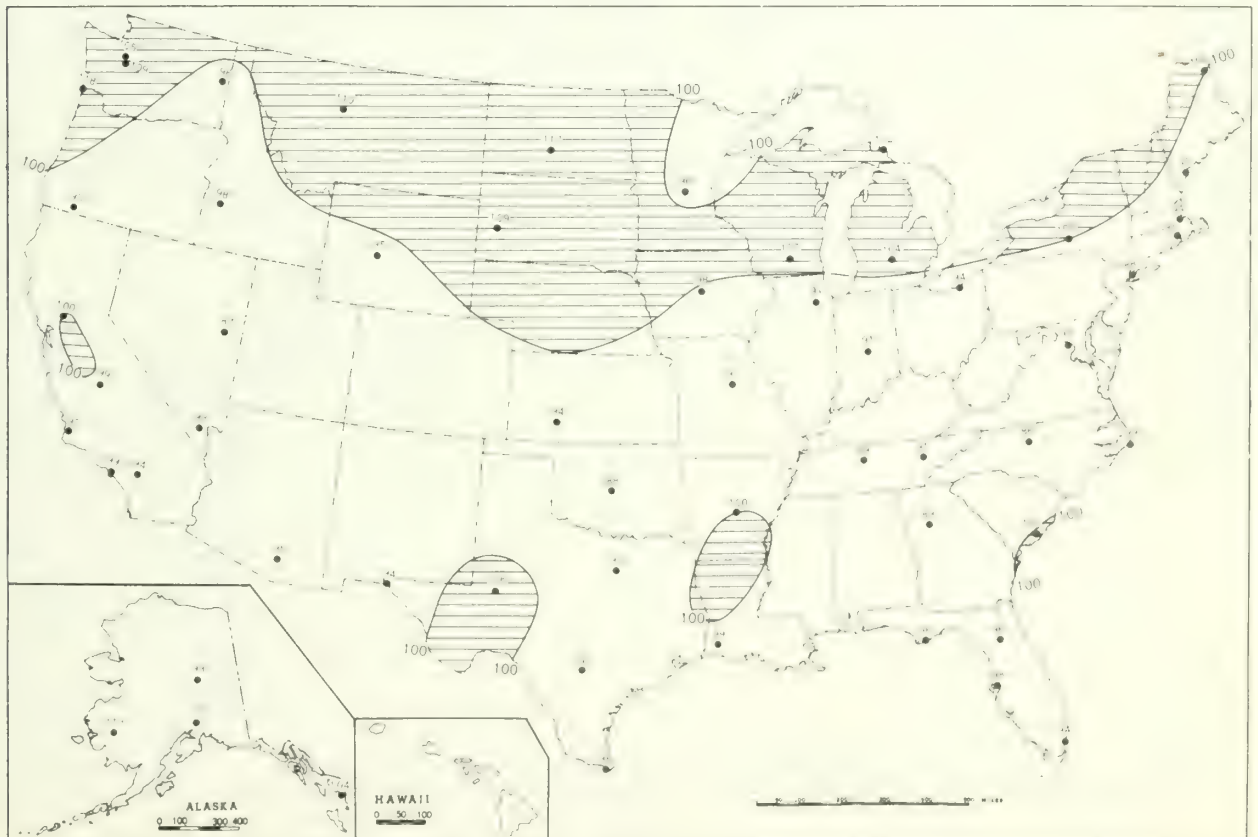


A. Computed from total number of hours of observed sunshine in relation to total number of possible hours of sunshine during month. B. Means are computed for stations having at least 10 years of record.

Chart III. A. Average Daily Values of Solar Radiation, Langleys, June 1970.



B. Percentage of Mean Daily Solar Radiation, June 1970.



A. Mean daily solar radiation, direct + diffuse, received on a horizontal surface in langleys (1 langley = 1 gm. cal. cm.⁻²) and recorded in International Pyrheliometer Scale of 1956. B. Percentage of the mean based on at least 5 years of record during the period 1950-60, and corrected to the International Pyrheliometer Scale of 1956.

Chart VIII Tracks of Centers of Anticyclones at Sea Level, June 1970.

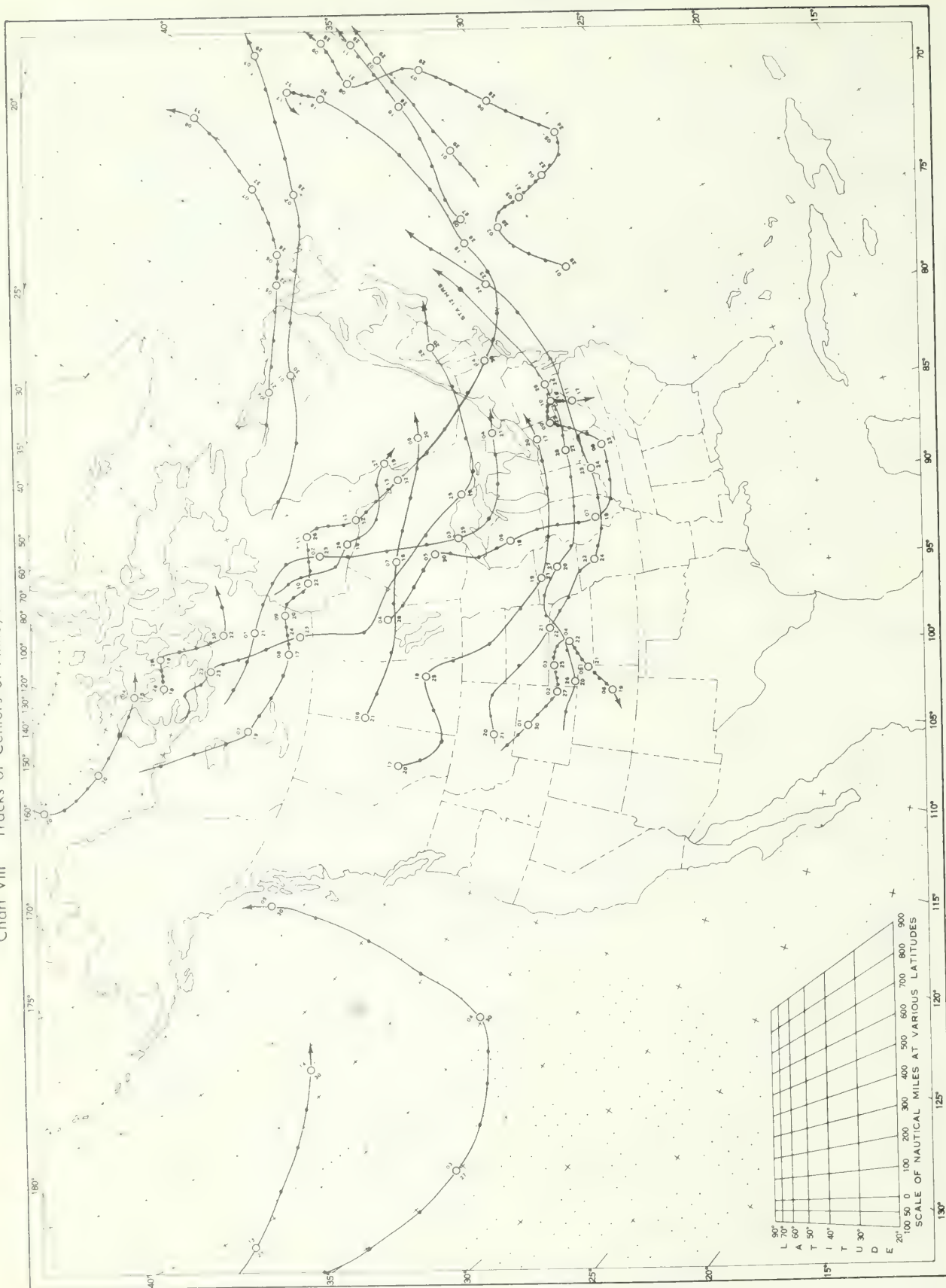
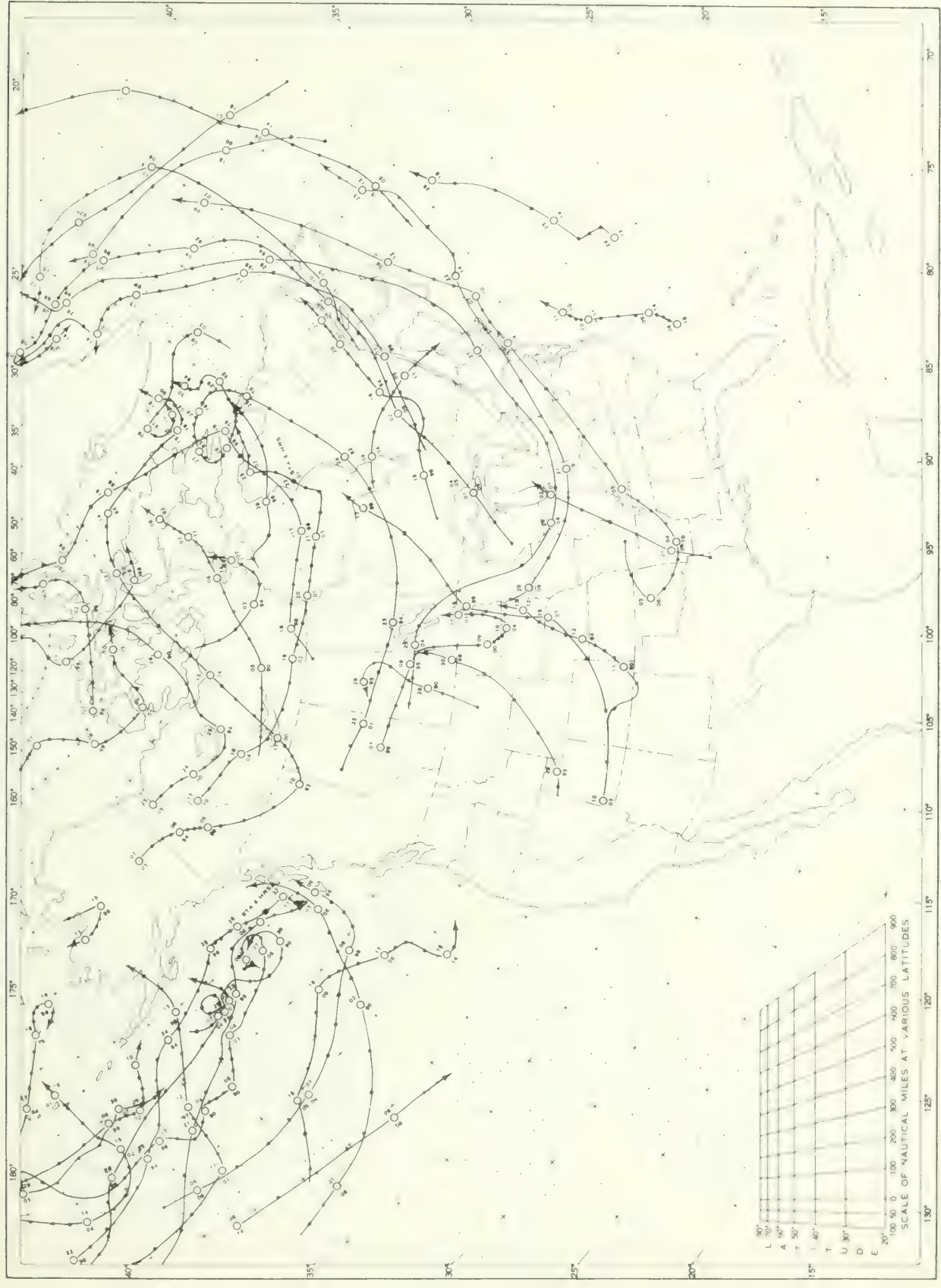
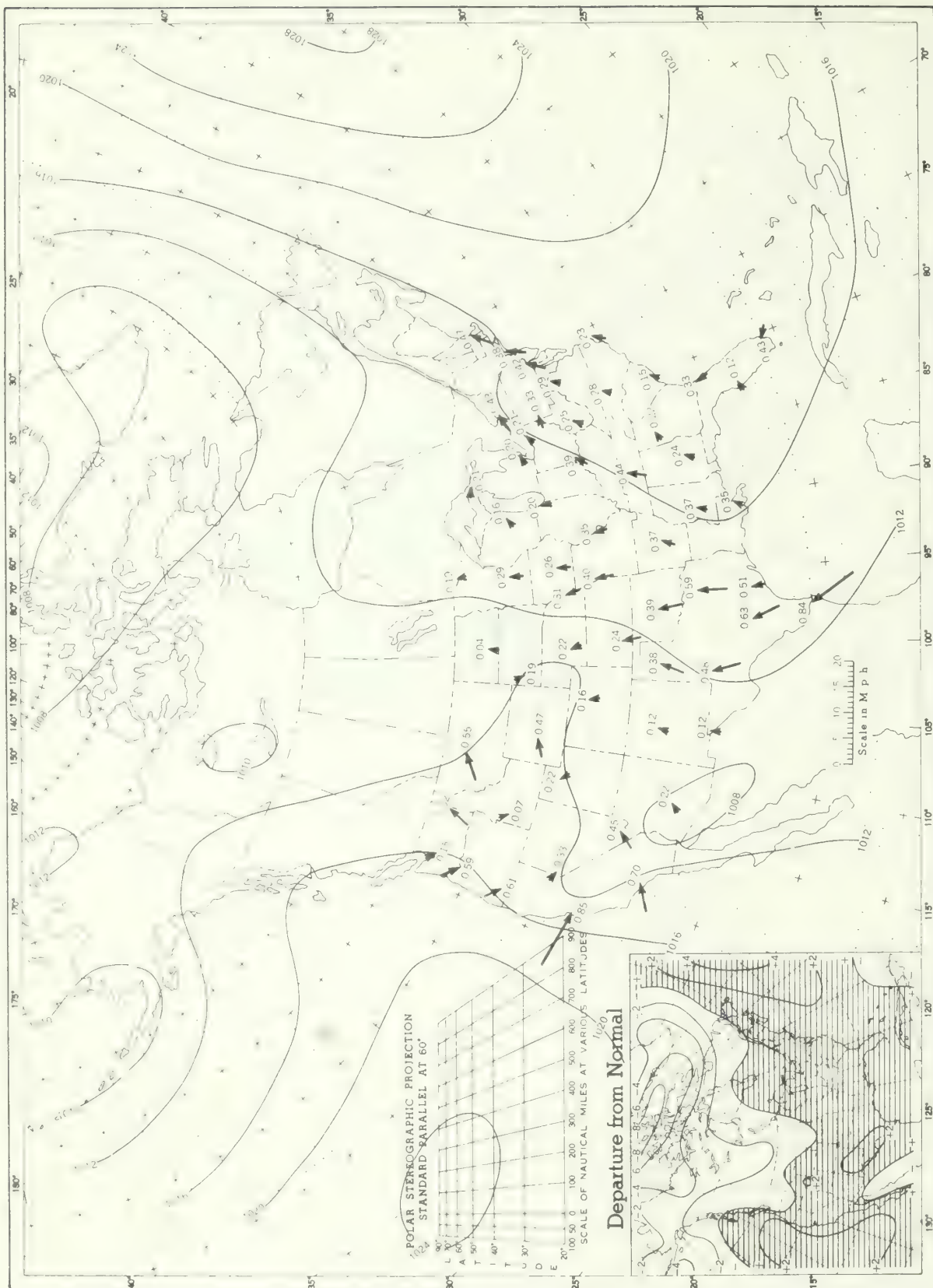


Chart IX. Tracks of Centers of Cyclones at Sea Level, June 1970.



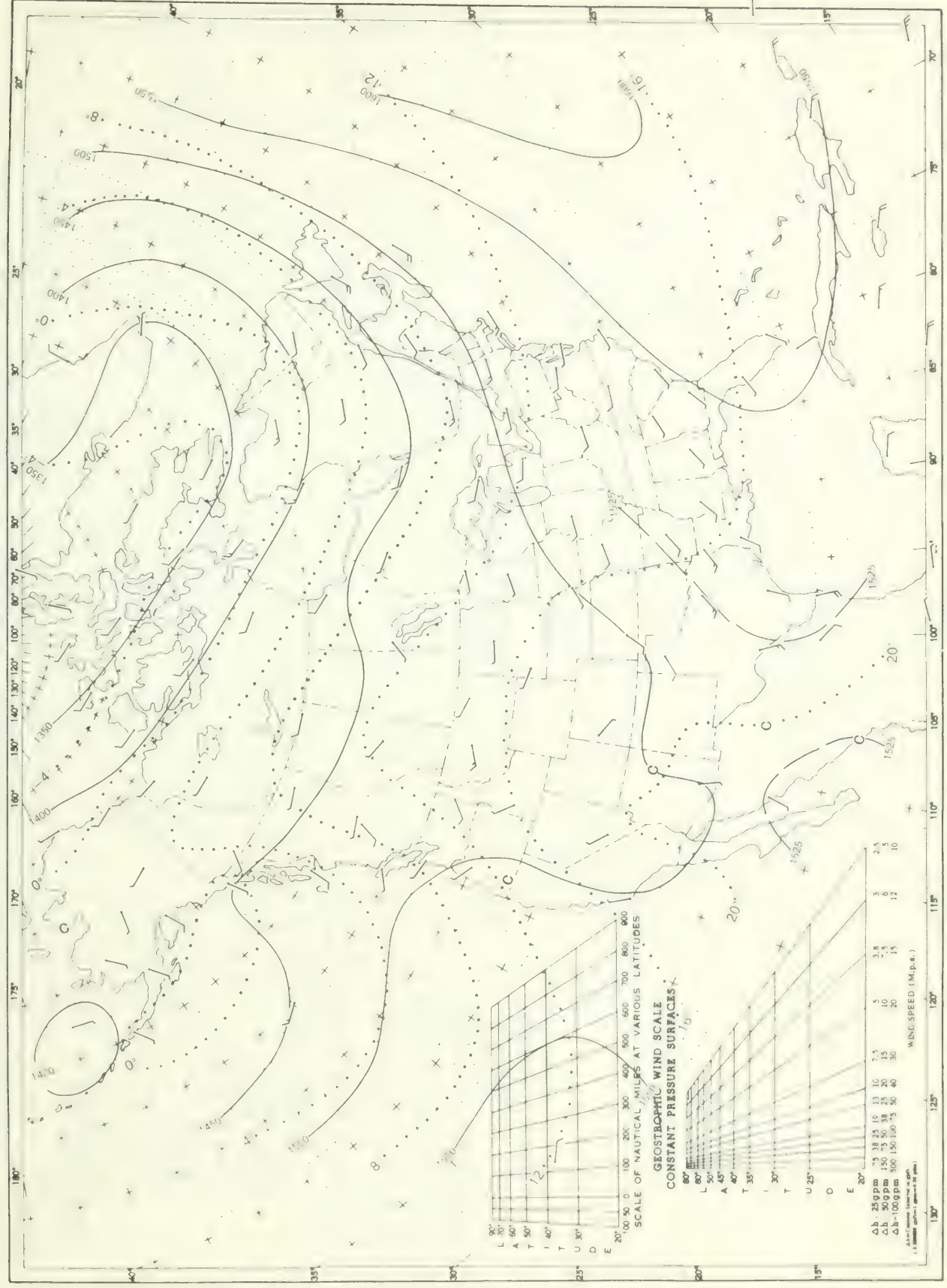
Circle indicates position of center at 7:00 a.m. E.S.T. Figure above circle indicates date, figure below, pressure to nearest millibar.
Dots indicate intervening 6-hourly positions. Squares indicate position of stationary center for period shown. Dashed line in track indicates reformation at new position. Only those centers which could be identified for 24 hours or more are included.

Chart X Average Sea Level Pressure (mb) and Resultant Surface Wind, June 1970. Inset: Departure of Average Pressure (mb) from Normal, June 1970.



Average sea level pressures are obtained from eight daily 3-hourly observations. Resultant wind directions and speeds are shown by arrows. Constancy ratios (resultant speed-average speed) are shown to two decimal places. Pressure normals are computed for stations having at least 10 years of record and for 10 intersections in a diamond grid over the oceans.

Chart XI 850-mb Surface, 1200 GMT, June 1970. Average Height and Temperature, and Resultant Winds



Height in geopotential meters (1 g.p.m. = 0.98 dynamic meters). Temperature in °C. Wind speed in meters per second; flag represents 26 mps, full feather 5 mps, and half feather 2.5 mps. All wind data are based on rawin observations.

Chart XII 700-mb Surface, 1200 GMT, June 1970. Average Height and Temperature, and Resultant Winds.

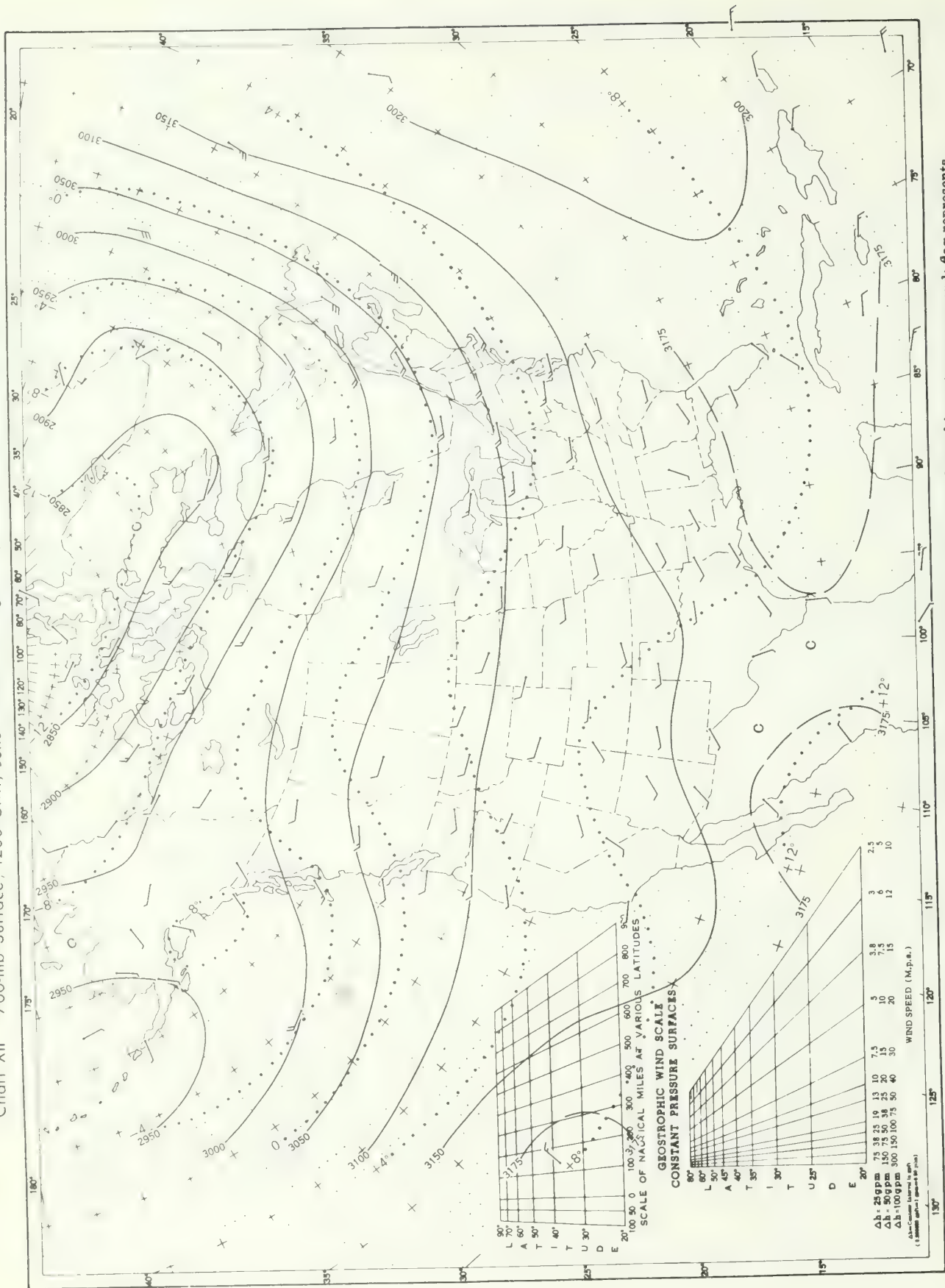
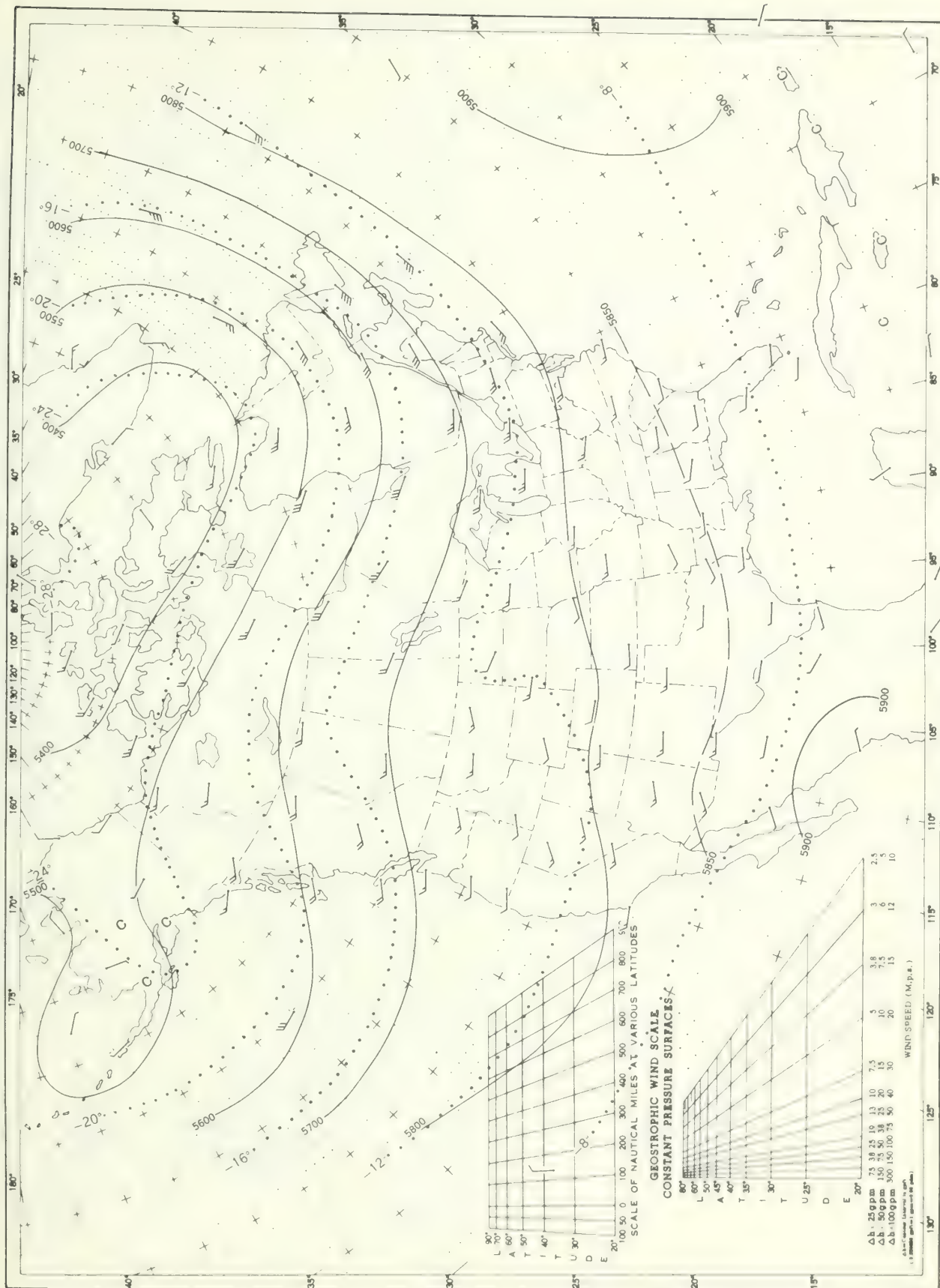


Chart XIII. 500-mb. Surface, 1200 GMT, June 1970. Average Height and Temperature, and Resultant Winds.



Height in geopotential meters (1 g.p.m. = 0.98 dynamic meters). Temperature in °C. Wind speed in meters per second; flag represents 25 mps, full feather 5 mps, and half feather 2.5 mps. All wind data are based on rawin observations.

Chart XIV. 300-mb. Surface, 1200 GMT, June 1970. Average Height and Temperature, and Resultant Winds

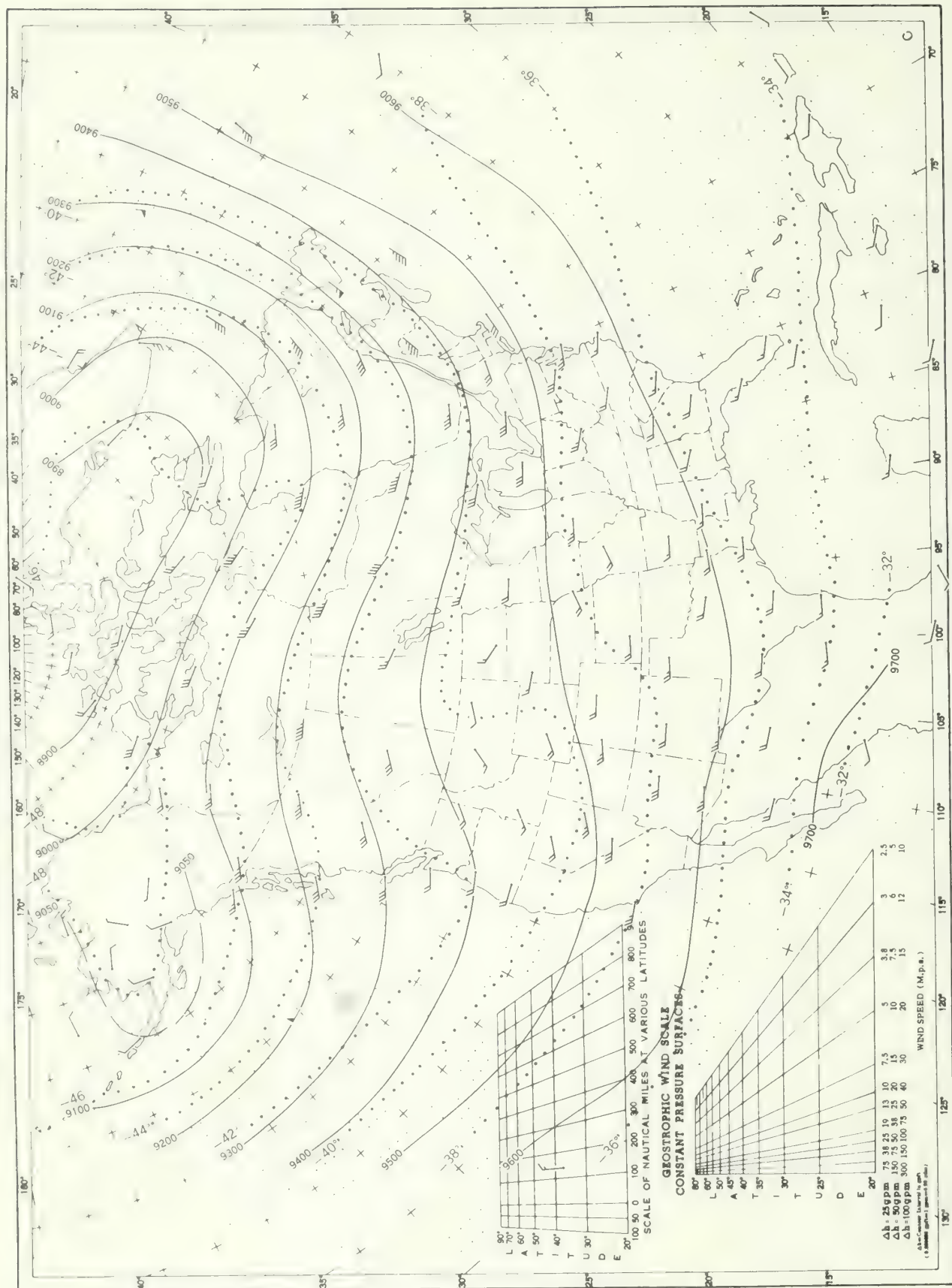
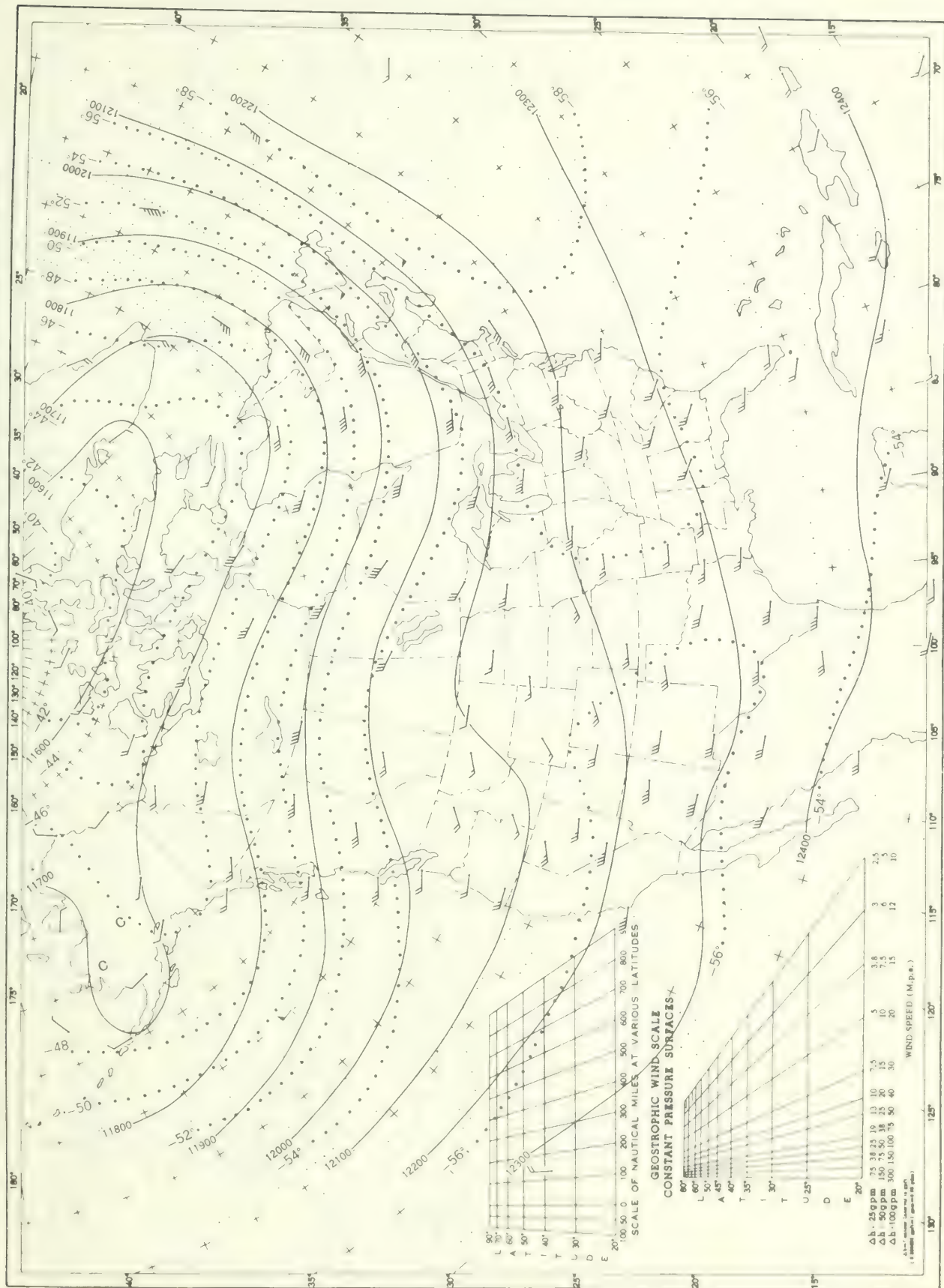
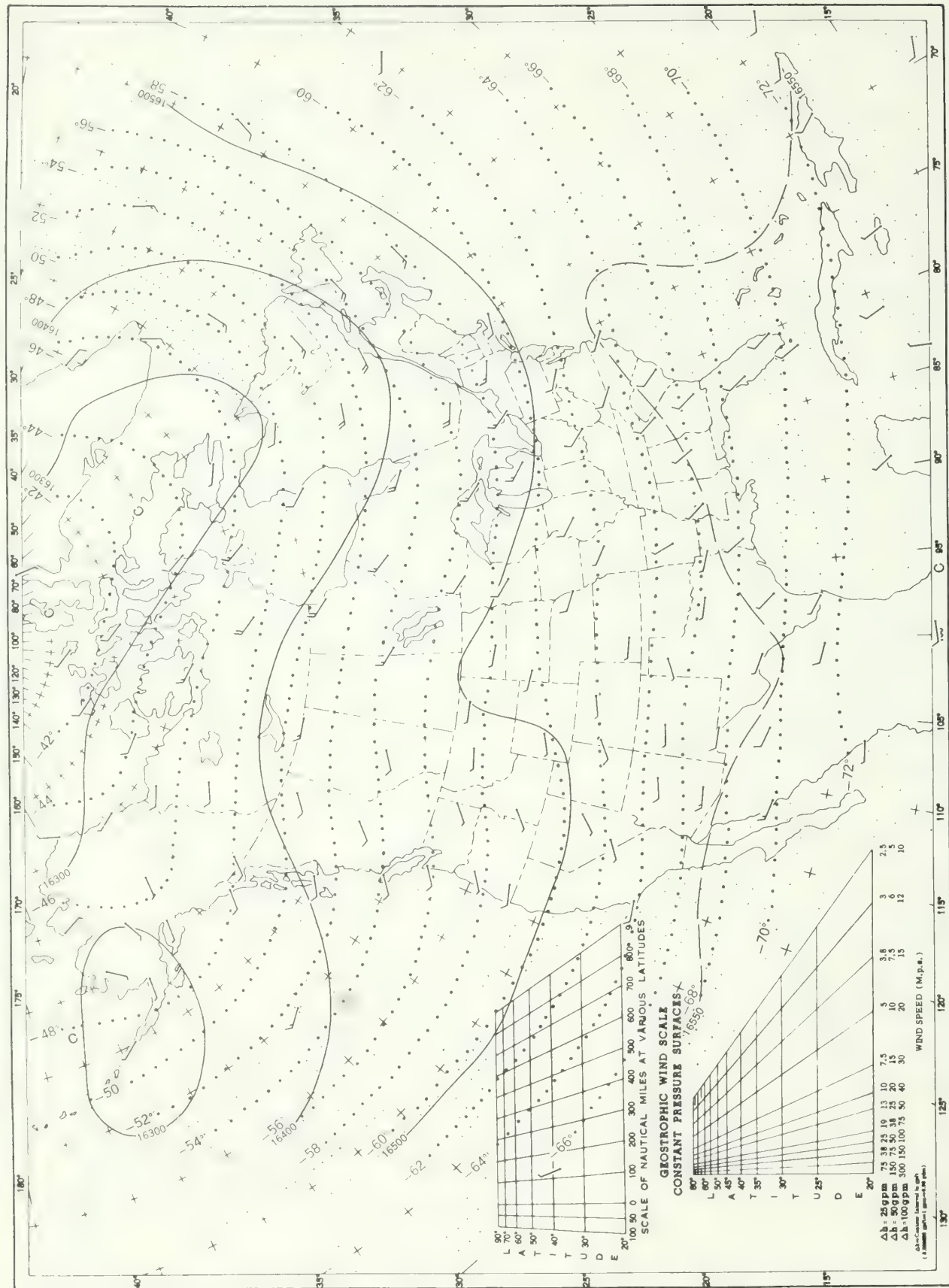


Chart XV. 200-mb Surface, 1200 GMT, June 1970. Average Height and Temperature, and Resultant Winds.

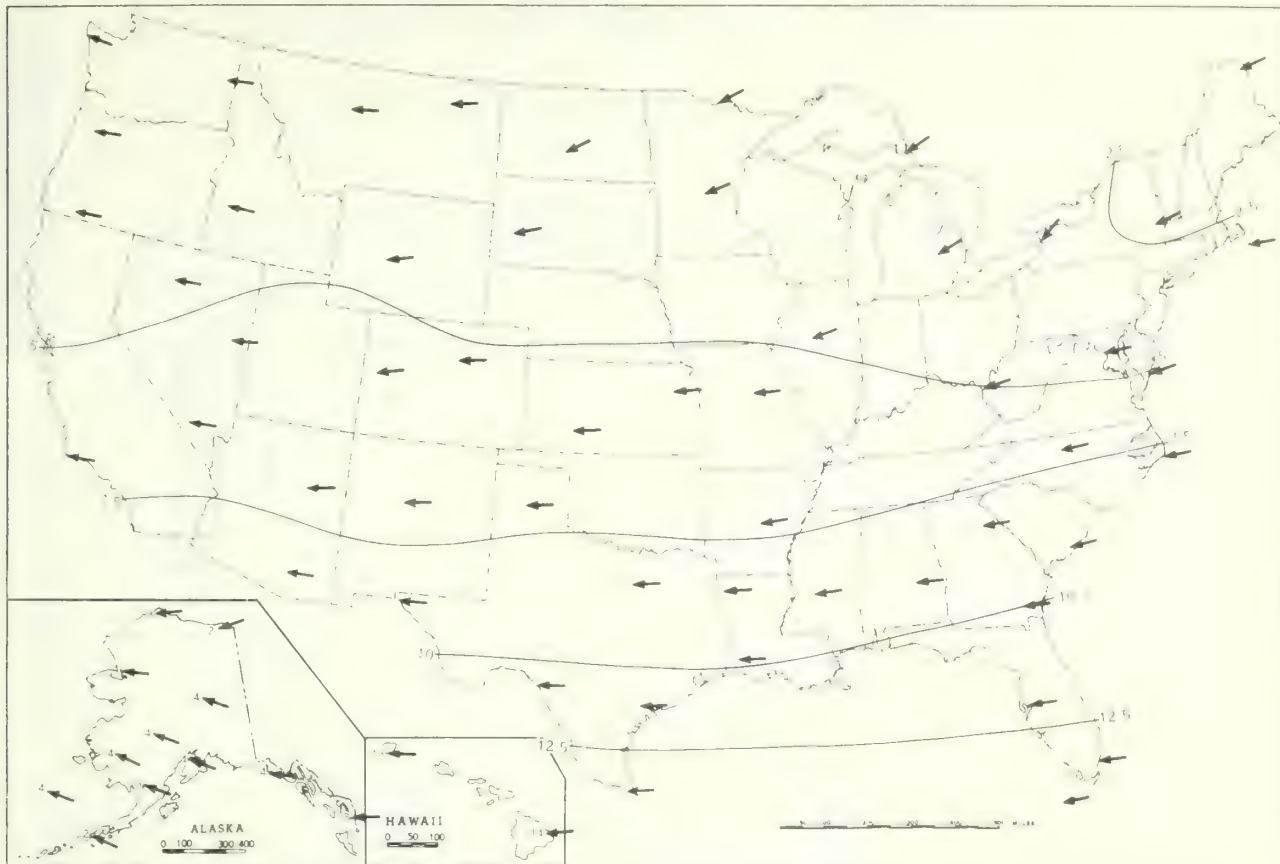


Height in geopotential meters (1 g.p.m. = 0.98 dynamic meters). Temperature in °C. Wind speed in meters per second; flag represents 25 mps, full feather 5 mps, and half feather 2.5 mps. All wind data are based on rawin observations.

Chart XVI. 100-mb. Surface, 1200 GMT, June 1970. Average Height and Temperature, and Resultant Winds



Height in geopotential meters (1 g. p. m. = 0.98 dynamic meters). Temperature in °C. Wind speed in meters per second; flag represents 26 mps, full feather 5 mps, and half feather 2.5 mps. All wind data are based on rawin observations.



B. 30-mb. Surface, 1200 GMT, June 1970. Resultant Winds.



Wind speed (isotachs) in meters per second. Arrows show resultant wind direction. All wind data are based on rawin observations.

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Climatological Data

NATIONAL SUMMARY

U.S. DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
Environmental Data Service



JULY

1970

June 21

No. 7

Chapel Hill, N.C.

1970

C O N T E N T S

| | |
|---|----------------|
| SURFACE DATA | Page |
| General Summary of Weather Conditions----- | 333 |
| Observed Extremes of Temperature and Precipitation - By States----- | 334 |
| Climatological Data - Stations - English Units----- | 335 |
| Climatological Data - Stations - Metric Units----- | 342 |
| Heating Degree Days----- | 349 |
| Cooling Degree Days----- | 350 |
| Tropical Storm Becky - July 18-23, 1970----- | 351 |
| Storm Summary----- | 353 |
| General Summary of River and Flood Conditions----- | 354 |
| Flood Stage Data----- | 355 |
|
UPPER AIR DATA | |
| Rawinsonde Data----- | 356 |
|
SOLAR RADIATION DATA | |
| Solar Radiation Intensities----- | 363 |
| Daily Totals and Monthly Averages----- | 364 |
| Net Radiation----- | 366 |
| Solar Ultra-Violet Radiation----- | 366 |
|
TOTAL OZONE DATA----- |
366 |
|
CHARTS I-XVII----- |
368 |

NOTE: Delayed data and corrections will be carried in the June and December issues of this publication. An explanatory page "Description of Charts" will be carried in the January and July issues.

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CLIMATOLOGICAL DATA

NATIONAL SUMMARY

Volume 21 No. 7

JULY 1970

GENERAL SUMMARY OF WEATHER CONDITIONS

HIGHLIGHTS:

1. Hot weather prevailed over the Western Interior. Cool fronts caused brief interruptions of the July heat in the central part of the Nation.
2. Precipitation occurred in a haphazard fashion. Distribution was uneven as is typical of July. Heavy storms punctuated the dry spells. Some areas experienced dust and sand storms.

TEMPERATURE.--In general, July temperatures averaged above normal in the Far West, the Southwest, the northern border States, and the Atlantic coastal States and below normal from the central Rocky Mountains and southern Great Plains to New York. Temperatures at most stations were within a few degrees of normal. There were a few outstanding exceptions, however. A number of stations in the Southwest registered the warmest average temperatures in several decades and Pueblo, Colo., with an average temperature of 80.3°, saw the warmest July in the 82-year record. At the other extreme, Nashville, Tenn., with an average temperature of 77.2° experienced the coolest July in 20 years.

The West averaged warmer than normal during the first 3 weeks but cooler-than-normal weather prevailed in the Northwest in the last 10 days of July. Central and eastern areas averaged near normal the first 3 weeks, relatively cool the 4th week, and hot the last few days. Maximums in the southwestern deserts climbed to 100° on almost every afternoon. This is about normal for the area. In the East, temperatures reached the 100° mark in each of several warm spells. Heat and humidity were especially oppressive near the end of the month when maximums in the 90's occurred on several consecutive afternoons and humidity remained high. Concord, N. H., registered 90° or warmer on 8 consecutive afternoons, the greatest number in their 69-year record. At Hartford, Conn., the mercury soared to 90° or higher on each afternoon from July 24 to 31. This was the longest period of consecutive days in 26 years with readings reaching 90° at Hartford.

Pollution was especially noticeable near the end of July when a large stagnant air mass covered the East.

Ocean breezes cooled the Pacific coast, but the heat intensified reaching 100° over much of the western interior on several occasions. On July 15, many western stations from Ephrata, Wash., to Yuma, Ariz., and eastward to Grand Junction, Colo., and Childress, Tex., registered 100° or higher. The mercury at Needles, Calif., reached 117° on that date.

On a number of occasions, cool fronts advanced into

the northern Great Plains. They caused sharp temperature drops but, in most cases, the cool spells lasted only a day or so. As the storm systems moved eastward, skies cleared and southerly winds brought the return of hot, humid weather.

PRECIPITATION.--July rainfall ranged from light sprinkles in California to about an inch along the Continental Divide, increasing to about 2 inches along the Missouri-Mississippi River. Several inches of rain fell in July in most areas east of the Mississippi River.

Spotty rains fell in the East in the first week of July. The showers missed most of the West and large areas of the southern Great Plains. Strong winds raised clouds of dust in Arizona. Some violent weather occurred from the central Great Plains to the Atlantic Ocean on July 2 and from southeastern Texas across the Deep South to Georgia on the 3d. The violent weather included severe thunderstorms with scattered hail and strong winds, and a few tornadoes.

Nighttime and early-morning showers fell across the warm, humid Southland and from the Great Lakes to the Middle Atlantic States, especially in the 2d week of July. Spots in Pennsylvania, Maryland, and West Virginia received several inches of rain on the afternoon and evening of July 9 and early on the 10th. Washington, D. C., received a record-breaking 4.69 inches on the afternoon and evening of the 9th. More light to moderate spotty showers fell over the eastern half of the Nation in the 3d week of July. Some eastern areas, missed by the showers, needed moisture badly.

Tropical Storm Becky brought heavy rain to the Florida Panhandle about the beginning of the 4th week of July. The remnants of the storm moved northward through Georgia, Tennessee, and Kentucky bringing heavy rain to the Southeast and moderate amounts to the east-central States.

Widely scattered showers fell in the northern and southern Rocky Mountains in the last few days of July.

A review of the July 1970 rainfall records and comparisons with previous Julies reveals some interesting facts. No measurable rain fell at Olympia, Wash., in 38 consecutive days, from June 15 to July 23, one of the longest dry spells of record. Pocatello, Idaho, Ely, Nev., and Milford, Utah, recorded the wettest July in over 30 years. Fargo, N. Dak., St. Louis, Mo., and Pensacola, Fla., experienced especially dry weather but Erie, Pa., and Rochester, N. Y., recorded the greatest July precipitation in 23 years.

The largest monthly totals fell in Florida, exceeding 10 inches at a number of stations. Much of California received no rain for the entire month.

OBSERVED EXTREMES OF TEMPERATURE AND PRECIPITATION -- BY STATES

JULY 1970

| STATE | Temperature | | | | | | Precipitation | | | | | |
|----------------|-----------------------------|---------------|------|------------------------------|--------------|------|-----------------------------|-----------------|-----------------------|--------------|--|------|
| | Monthly extremes | | | | | | Monthly extremes | | | | | |
| | Station | Highest
°F | Date | Station | Lowest
°F | Date | Station | Greatest
In. | Station | Least
In. | | |
| Alabama | Phenix City 2 NW | 105 | 4 | Tuscaloosa Oliver Dam | 44 | 23 | Lafayette | 11.62 | Gulf Shores P O | | | |
| Alaska | Richardson | 90 | 28 | Ernestine | 20 | 23- | Whittier | 17.27 | Ernestine | | | .07 |
| Arizona | Willow Beach | 119 | 17+ | Kayenta | 27 | 7 | Seligman | 7.27 | 5 Stations | | | 1.00 |
| Arkansas | 2 Stations | 106 | 3 | Huntsville | 42 | 22 | Des Arc | 8.71 | Berryville 4 NW | | | .05 |
| California | Death Valley | 124 | 19- | White Mountain 2 | 12 | 15 | White Mountain 2 | 3.64 | 388 Stations | | | .00 |
| Colorado | 3 Stations | 104 | 18+ | Hermit 7 ESE | 23 | 1 | Ruxton Park | 5.40 | Ignacio 1 N | | | .25 |
| Connecticut | 2 Stations | 96 | 30+ | Coventry | 45 | 13 | Woodbury | 4.37 | Wepawaug Reservoir | | | .79 |
| Delaware | Selbyville | 93 | 4 | Milford 2 WSW | 54 | 7 | Selbyville | 10.59 | Georgetown 5 SW | | | 2.88 |
| Florida | Smith Creek | 101 | 3+ | 3 Stations | 60 | 19- | Tallahassee WBAP | 16.13 | Sarasota | | | .93 |
| Georgia | 2 Stations | 105 | 4+ | 2 Stations | 47 | 6 | Savannah Beach | 11.74 | Mount Vernon 3 WNW | | | 1.88 |
| Hawaii | Keawakapu Beach 260.2, Maui | 93 | 29 | Mauna Loa Slope Obs., Hawaii | 30 | 26 | Mount Waialeale 1047, Kauai | 30.57 | 9 Stations | | | .00 |
| Idaho | Brownlee Dam | 108 | 20 | 2 Stations | 28 | 23+ | Winchester 1 SW | 2.81 | 2 Stations | | | T |
| Illinois | Cahokia | 104 | 31 | Wheaton 3 SE | 45 | 21 | Tiskilwa | 7.11 | Brookport Dam 52 | | | .39 |
| Indiana | 2 Stations | 102 | 2- | 2 Stations | 40 | 6- | Greenfield | 8.76 | Salem | | | 1.63 |
| Iowa | 3 Stations | 104 | 31 | Carroll 2 SSW | 41 | 21 | Decorah | 8.80 | Akron | | | .94 |
| Kansas | Hunter | 113 | 18 | Kirwin | 42 | 22+ | Wakefield | 7.28 | Fort Scott | | | .06 |
| Kentucky | 4 Stations | 101 | 3- | Falmouth 5 WNW | 45 | 21 | Summer Shade | 7.34 | Bardwell 4 E | | | .32 |
| Louisiana | Bastrop | 104 | 3 | Logansport 4 ENE | 53 | 6 | New Orleans London | 11.35 | Lake Charles WBAP | | | .97 |
| Maine | Saco | 101 | 27 | Squa Pan Dam | 35 | 14 | Springfield | 5.41 | 2 Stations | | | .78 |
| Maryland | 4 Stations | 96 | 4+ | Oakland 1 SE | 42 | 7 | U.S. Soldiers Home DC | 9.11 | Willington | | | 2.86 |
| Massachusetts | Chester 2 | 100 | 28 | Cummington Hill | 40 | 13 | Holyoke | 4.17 | New Bedford | | | .11 |
| Michigan | Baldwin State Forest | 98 | 1 | Herman | 31 | 5 | Dowagiac 1 W | 8.69 | Eagle Harbor Coast GD | | | .45 |
| Minnesota | 2 Stations | 99 | 25+ | 2 Stations | 38 | 20 | Windom | 8.30 | Hawley | | | .42 |
| Mississippi | 4 Stations | 104 | 4- | Fulton 3 W | 51 | 6 | Vanceville | 16.38 | Hernando | | | 1.29 |
| Missouri | 7 Stations | 106 | 31 | 3 Stations | 42 | 22- | Williamsville | 5.51 | 2 Stations | | | .00 |
| Montana | Miles City FAA Airport | 104 | 9 | 3 Stations | 29 | 31- | Rocky Boy | 7.66 | Laurel | | | .17 |
| Nebraska | 2 Stations | 107 | 29+ | Agate 3 E | 36 | 15 | Ellsmere 9 ENE | 4.94 | Hardy | | | .22 |
| Nevada | Sunrise Manor Las Vegas | 116 | 16+ | 3 Stations | 31 | 23+ | Pioche | 4.99 | 5 Stations | | | .00 |
| New Hampshire | Franklin | 97 | 30+ | Mount Washington | 34 | 22- | Mount Washington | 5.59 | Center Harbor | | | 1.06 |
| New Jersey | Paterson | 96 | 29 | Sussex 1 SE | 46 | 13+ | Chatsworth | 6.67 | Sandy Hook | | | .54 |
| New Mexico | 4 Stations | 106 | 13+ | Tierra Amarilla 4 NNW | 33 | 1 | Kelly Ranch | 6.21 | Carlsbad FAA AP | | | T |
| New York | Glenham | 97 | 30- | 3 Stations | 38 | 22+ | Deposits | 12.77 | NY John F Kennedy | | | .54 |
| North Carolina | 4 Stations | 101 | 5- | Transou | 42 | 17 | William O. Huske L&D | 15.80 | High Point | | | 1.36 |
| North Dakota | Enderlin | 102 | 13 | Wishek | 37 | 20 | Velva | 8.89 | Fargo WBAP | | | .43 |
| Ohio | Defiance | 104 | 1 | Sandusky | 41 | 21 | Napoleon Water Works | 12.27 | Chilo Meldahl Dam | | | 1.57 |
| Oklahoma | Mutual | 115 | 10 | 2 Stations | 45 | 22- | Cushing | 5.22 | 2 Stations | | | .00 |
| Oregon | 4 Stations | 106 | 19- | 2 Stations | 24 | 29- | Baker KBKR | 2.45 | 41 Stations | | | .00 |
| Pennsylvania | Burnt Cabins 2 NE | 97 | 31 | Clermont 4 NW | 33 | 22 | Arendtsville | 12.10 | Cedar Run | | | 1.21 |
| Puerto Rico | 2 Stations, P.R. | 96 | 30- | Cerro Maravilla, P.R. | 47 | 17 | Guavate Camp, P.R. | 15.60 | Mona Island, P.R. | | | .22 |
| Rhode Island | Greenville | 94 | 27 | 3 Stations | 52 | 22+ | Block Island WBAP | 2.63 | North Scituate 4 W | | | .68 |
| South Carolina | 3 Stations | 104 | 4- | 2 Stations | 51 | 7+ | Georgetown | 10.99 | Edisto Island 5 SW | | | 1.36 |
| South Dakota | 2 Stations | 108 | 17 | Pactola Dam | 37 | 15 | Clear Lake | 4.86 | La Delle 7 NE | | | .12 |
| Tennessee | 2 Stations | 102 | 3 | Mountain City No 2 | 44 | 17 | Mountain City No 2 | 5.71 | Newbern | | | .36 |
| Texas | Miami | 111 | 11 | Mount Locke | 40 | 13 | Bay City Waterworks | 6.57 | 43 Stations | | | .00 |
| Utah | 3 Stations | 108 | 27+ | Soldier Creek | 24 | 1 | New Harmony | 4.80 | Moab 4 NW | | | .02 |
| Vermont | Vernon | 95 | 26 | Mount Mansfield | 40 | 19 | Dorset 1 S | 4.14 | Union Village Dam | | | 1.13 |
| Virginia | Tye River 1 SE | 102 | 1 | Partlow 3 WNW | 42 | 7 | Meadows of Dan 5 SW | 11.96 | Chase City | | | 1.17 |
| Washington | Walla Walla | 107 | 15 | Rainier Paradise RS | 31 | 1 | Tolt South Fork Resrv | 3.48 | 10 Stations | | | .00 |
| West Virginia | 2 Stations | 100 | 2 | Canaan Valley | 36 | 7 | Camden On Gauley | 9.01 | Alderson | | | 1.40 |
| Wisconsin | 3 Stations | 99 | 1 | 2 Stations | 33 | 5 | Lady-smith | 8.02 | Brillion | | | 1.34 |
| Wyoming | Echeta 2 NW | 106 | 5 | Kendall | 20 | 1 | Reno | 2.92 | 2 Stations | | | T |

* And also on an earlier date or dates

Note: Dates in the above table apply to the period 24 hours prior to time of observation. In some cases the actual occurrence is on the calendar date preceding that shown. (See individual Climatological Data for times of observations.)

CLIMATOLOGICAL DATA

[illegible]

See footnotes at end of table

CLIMATOLOGICAL DATA

ENGLISH UNITS

JULY 1974

| State and Station | Elevation ground | Pressure | | Temperature | | | | | | Precipitation | | | | Wind | | | | No. of days (sunrise to sunset) | | | Poss. br. sunshine | | | | | | | | | |
|---------------------|------------------|----------|-----------|-----------------|-----------------|-----------------------|--------|---------------------|---------------------|-----------------|--------------------|---------------------------|-------|-----------------------|----------------------|-------------|-------------------------|---------------------------------|--------------------|--------------|--------------------|-----------|-------------------|-------------|---------------------------------------|-----------|----|----|-----|-----|
| | | Station | Sea level | Average maximum | Average minimum | Departure from normal | | Date | | No. of days | | Average relative humidity | Total | Departure from normal | Greatest in 24 hours | No. of days | | Residual speed | Residual direction | Fastest mile | | Clear 0-3 | Partly cloudy 4-7 | Cloudy 8-10 | Sky cover, tenths (sunrise to sunset) | | | | | |
| | | | | | | Highest | Lowest | Max. 90 F. or above | Min. 32 F. or below | 01 inch or more | With thunderstorms | | | | | Total | Maximum depth on ground | | | Speed | | | | | | Direction | | | | |
| | | | | F | F | | | | | | | F | F | F | F | | | F | F | | | In. | In. | Mph. | Mph. | | | | | |
| CALIFORNIA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| STOCKTON | 22 | 1011.2 | 1012.3 | 76 | 62 | 78.7 | 0.5 | 107 | 4 | 54 | 16 | 28 | 0 | 51 | 43 | 0.00 | 0 | 0.0 | 0 | 0.0 | 7.7 | 31 | 25 | 20 | 15 | 27 | 3 | 1 | 1.0 | |
| COLORADO | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ALABAMA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| COLORADO SPRINGS | 7516 | 777.9 | 1015.2 | 83 | 69 | 85.8 | 0.0 | 89 | 30 | 38 | 1 | 0 | 0 | 54 | 1.35 | 0.28 | 7 | 0 | 0.0 | 0 | 2.0 | 3 | 37 | 35 | 34 | 8 | 19 | 5 | 4.8 | |
| DENVER | 5283 | 839.8 | 1013.6 | 84 | 68 | 71.2 | -0.7 | 92 | 17+ | 54 | 20+ | 4 | 0 | 50 | 3.79 | 1.42 | 15 | 10 | 0.0 | 0 | 1.2 | 3 | 32 | NW | 30+ | 6 | 17 | 8 | 5.5 | |
| GRAND JUNCTION | 4343 | 854.0 | 1012.6 | 84 | 64 | 72.0 | -0.9 | 93 | 18+ | 53 | 20+ | 4 | 0 | 52 | 1.67 | 0.14 | 10 | 0 | 0.0 | 0 | 4.1 | 15 | 45 | N | 6 | 11 | 14 | 4 | 4.8 | |
| OKLAHOMA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| OKLAHOMA CITY | 4684 | 867.8 | 1012.6 | 84 | 65 | 80.3 | 3.8 | 103 | 14 | 59 | 26+ | 28 | 0 | 53 | 4.4 | 0.33 | 5 | 6 | 0.0 | 0 | 2.1 | 6 | 42 | N | 14 | 9 | 14 | 8 | 5.1 | |
| CONNECTICUT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BRIDGEPORT | 7 | 1015.6 | 1016.2 | 82 | 67 | 74.3 | 0.6 | 93 | 28 | 60 | 6 | 2 | 0 | 64 | 75 | 0.42 | 6 | 2 | 0.0 | 0 | 4.8 | 20 | 35 | 22 | 16 | 7 | 11 | 13 | 6.3 | |
| HARTFORD | 160 | 1009.5 | 1015.7 | 86 | 64 | 75.2 | 1.8 | 96 | 28 | 55 | 13 | 9 | 0 | 62 | 67 | 0.48 | 8 | 5 | 0.0 | 0 | 3.9 | 20 | 26 | NW | 12 | 4 | 16 | 11 | 6.5 | |
| DELAWARE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| WILMINGTON | 74 | 1013.0 | 1016.8 | 85 | 69 | 74.6 | 0.6 | 91 | 4 | 59 | 7 | 2 | 0 | 66 | 73 | 1.55 | 12 | 11 | 0.0 | 0 | 2.8 | 20 | 25 | 17 | 20+ | 4 | 11 | 16 | 7.1 | |
| DIST. OF COLUMBIA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| WASHINGTON | 290 | 1004.7 | 1016.4 | 86 | 62 | 74.0 | 1.0 | 94 | 2 | 47 | 7 | 9 | 0 | 64 | 76 | 2.30 | 16 | 9 | 0.0 | 0 | 1.2 | 23 | 30 | 24 | 20 | 3 | 11 | 17 | 7.1 | |
| WASHINGTON NATIONAL | 10 | 1014.2 | 1016.6 | 89 | 70 | 79.2 | | 95 | 4 | 60 | | | | 66 | 66 | 4.69 | 10 | 9 | 0.0 | 0 | 2.0 | 21 | 33 | W | 4 | 5 | 8 | 18 | 7.1 | |
| FLORIDA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| APALACHICOLA | 13 | 1017.3 | 1018.5 | 80 | 74 | 82.3 | 0.8 | 94 | 3 | 71 | 22+ | 14 | 0 | 72 | 74 | 0.90 | 9 | 11 | 0.0 | 0 | 2.7 | 16 | 34 | SE | 21 | 6 | 12 | 13 | 6.2 | |
| DAYTONA BEACH | 31 | 1017.3 | 1018.5 | 82 | 74 | 82.7 | 2.6 | 96 | 54 | 67 | 1 | 26 | 0 | 72 | 74 | 3.33 | 10 | 16 | 0.0 | 0 | 2.7 | 16 | 38 | SE | 12 | 1 | 15 | 15 | 7.2 | |
| FORT MYERS | 15 | 1017.6 | 1019.0 | 80 | 73 | 82.2 | 0.0 | 93 | 19+ | 72 | 94 | 23 | 0 | 72 | 75 | 4.74 | 0 | 10 | 0.0 | 0 | 3.0 | 11 | 37 | SE | 12 | 0 | 13 | 11 | 6.0 | |
| JACKSONVILLE | 24 | 1016.9 | 1017.9 | 83 | 73 | 83.1 | 0.5 | 99 | 44 | 69 | 18+ | 28 | 0 | 72 | 76 | 7.60 | 0 | 16 | 0.0 | 0 | 4.3 | 20 | 30 | SE | 11+ | 0 | 13 | 13 | 7.5 | |
| KEY WEST | 4 | 1016.6 | 1017.2 | 88 | 80 | 83.8 | 0.5 | 89 | 29+ | 74 | 24 | 0 | 0 | 74 | 73 | 11.69 | 0 | 14 | 0.0 | 0 | 7.9 | 12 | 24 | SE | 31 | 4 | 16 | 16 | 7.1 | |
| LAKELAND | 214 | 1017.6 | 1017.7 | 81 | 73 | 81.6 | 0.0 | 94 | 19+ | 69 | 16+ | 23 | 0 | 74 | 77 | 11.27 | 0 | 14 | 0.0 | 0 | 5.0 | 12 | 24 | SE | 31 | 4 | 16 | 16 | 7.1 | |
| MIAMI | 10 | 1017.6 | 1017.7 | 81 | 73 | 81.6 | 0.0 | 94 | 19+ | 69 | 16+ | 23 | 0 | 74 | 77 | 11.27 | 0 | 14 | 0.0 | 0 | 5.0 | 12 | 24 | SE | 31 | 4 | 16 | 16 | 7.1 | |
| ORLANDO | 108 | 1013.6 | 1014.0 | 83 | 74 | 83.8 | 1.3 | 96 | 34 | 70 | 1 | 31 | 0 | 72 | 74 | 4.44 | 0 | 10 | 0.0 | 0 | 2.5 | 17 | 35 | SE | 18+ | 2 | 16 | 13 | 7.0 | |
| PENSACOLA | 112 | 1013.6 | 1017.5 | 81 | 75 | 83.1 | 1.4 | 99 | 27+ | 70 | 17+ | 23 | 0 | 70 | 76 | 1.69 | 0 | 0 | 0.0 | 0 | 3.8 | 20 | 21 | SE | 18 | 4 | 11 | 16 | 6.8 | |
| TALLAHASSEE | 55 | 1015.2 | 1017.5 | 82 | 70 | 80.6 | -0.7 | 99 | 3 | 63 | 1 | 23 | 0 | 70 | 78 | 16.13 | 0 | 16 | 0.0 | 0 | 1.3 | 20 | 22 | SE | 19 | 4 | 14 | 13 | 6.8 | |
| TAMPA | 19 | 1017.3 | 1017.6 | 82 | 74 | 82.8 | 1.2 | 94 | 30+ | 63 | 1 | 26 | 0 | 71 | 72 | 2.77 | 0 | 11 | 0.0 | 0 | 1.6 | 17 | 35 | SE | 1 | 1 | 13 | 17 | 7.3 | |
| WEST PALM BEACH | 15 | 1017.3 | 1018.0 | 80 | 76 | 82.5 | -0.1 | 93 | 5 | 71 | 4+ | 15 | 0 | 74 | 79 | 3.17 | 0 | 12 | 0.0 | 0 | 4.4 | 9 | 29 | SE | 1 | 1 | 9 | 21 | 7.0 | |
| GEORGIA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ATLANTA | 902 | 1008.2 | 1016.5 | 81 | 69 | 80.0 | 0.3 | 101 | 3+ | 61 | 7 | 21 | 0 | 68 | 74 | 4.07 | 0 | 12 | 0.0 | 0 | 2.1 | 24 | 21 | 22 | 21+ | 3 | 17 | 11 | 6.1 | |
| ATLANTA | 1010 | 1011.0 | 1017.0 | 80 | 69 | 78.7 | -0.2 | 98 | 3 | 58 | 6 | 14 | 0 | 67 | 74 | 3.59 | 0 | 11 | 0.0 | 0 | 2.7 | 27 | 31 | W | 4 | 9 | 14 | 9 | 5.8 | |
| AUGUSTA | 136 | 1011.2 | 1016.3 | 82 | 70 | 80.2 | -0.5 | 100 | 2 | 61 | 6 | 21 | 0 | 60 | 76 | 6.29 | 0 | 10 | 0.0 | 0 | 0.6 | 25 | 23 | SE | 16 | 1 | 17 | 9 | 6.8 | |
| COLUMBUS | 385 | 1003.1 | 1016.0 | 82 | 71 | 81.5 | 0.4 | 101 | 3+ | 61 | 6 | 25 | 0 | 70 | 74 | 3.95 | 0 | 14 | 0.0 | 0 | 2.8 | 24 | 29 | SE | 19 | 1 | 18 | 12 | 6.6 | |
| MACON | 354 | 1004.1 | 1016.0 | 81 | 67 | 78.9 | 1.0 | 104 | 3 | 58 | 6 | 29 | 0 | 70 | 73 | 3.89 | 0 | 9 | 0.0 | 0 | 4.0 | 24 | 29 | SE | 19 | 1 | 18 | 12 | 6.6 | |
| ROME | 637 | 1004.1 | 1016.0 | 81 | 67 | 78.9 | -0.1 | 101 | 3 | 55 | 7 | 24 | 0 | 69 | 72 | 2.89 | 0 | 9 | 0.0 | 0 | 4.0 | 24 | 29 | SE | 19 | 1 | 18 | 12 | 6.6 | |
| SAVANNAH | 46 | 1015.2 | 1017.0 | 82 | 72 | 81.6 | 0.3 | 96 | 1 | 63 | 7 | 25 | 0 | 70 | 73 | 5.76 | 0 | 16 | 0.0 | 0 | 4.3 | 21 | 38 | NW | 15 | 3 | 17 | 11 | 6.4 | |
| HAWAII | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HONOLOULU | 27 | 1016.6 | 1017.7 | 83 | 66 | 74.2 | -0.7 | 84 | 30+ | 62 | 11 | 0 | 0 | 67 | 78 | 12.27 | 0 | 28 | 0 | 0 | 0.6 | 34 | 16 | NF | 11 | 2 | 15 | 14 | 7.1 | |
| KAHULUI | 48 | 1016.0 | 1017.3 | 80 | 75 | 82.2 | 3.4 | 90 | 31+ | 72 | 31+ | 12 | 0 | 66 | 61 | 2.01 | 0 | 15 | 0 | 0 | 14.1 | 5 | 20 | NF | 11+ | 12 | 15 | 4 | 4.5 | |
| LIHUE | 103 | 1013.9 | 1019.0 | 85 | 75 | 79.5 | 1.9 | 92 | 25 | 66 | 10+ | 0 | 0 | 67 | 69 | 0.15 | 0 | 0 | 0.0 | 0 | 13.2 | 5 | 26 | NF | 1 | 2 | 19 | 10 | 6.6 | |
| INDIANA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| INDIANAPOLIS | 2838 | 915.0 | 1012.7 | 82 | 61 | 76.3 | 1.1 | 101 | 19+ | 50 | 31+ | 21 | 0 | 45 | 36 | 0.28 | 0 | 4 | 0 | 0 | 0.8 | 9 | 38 | SW | 20+ | 19 | 8 | 4 | 3.2 | |
| LEXINGTON | 1613 | 865.2 | 1014.8 | 88 | 61 | 76.1 | 2.3 | 103 | 0 | 52 | 30 | 0 | 0 | 46 | 44 | 1.48 | 0 | 7 | 0.0 | 0 | 2.9 | 22 | 39 | SW | 20 | 17 | 9 | 5 | 3.9 | |
| OKLAHOMA CITY | 4454 | 865.2 | 1014.8 | 88 | 61 | 76.1 | 2.3 | 103 | 0 | 52 | 30 | 0 | 0 | 46 | 44 | 1.48 | 0 | 7 | 0.0 | 0 | 2.9 | 22 | 39 | SW | 20 | 17 | 9 | 5 | 3.9 | |
| ILLINOIS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CHICAGO | 314 | 901.5 | 1015.6 | 88 | 71 | 79.5 | -1.6 | 100 | 2 | 61 | 22+ | 15 | 0 | 61 | 64 | 0.91 | 0 | 10 | 0.0 | 0 | 2.2 | 25 | 21 | SW | 20+ | 10 | 14 | 7 | 4.9 | |
| CHICAGO O'HARE | 658 | 891.5 | 1015.6 | 84 | 65 | 74.7 | 2.0 | 96 | 2 | 51 | 21 | 8 | 0 | 60 | 62 | 4.08 | 0 | 6 | 0.0 | 0 | 2.0 | 24 | 41 | 24 | SE | 15 | 7 | 10 | 5 | 5.2 |
| CHICAGO MIDWAY | 677 | 893.2 | 1015.4 | 86 | 66 | 75.9 | 0.3 | 99 | 2 | 51 | 21 | 13 | 0 | 60 | 62 | 2.58 | 0 | 9 | 0.0 | 0 | 2.0 | 24 | 39 | NW | 2 | 9 | 17 | 5 | 5.0 | |

See footnotes at end of table

CLIMATOLOGICAL DATA

JULY 1975

ENGLISH UNITS

| State and Station | Elevation (ground) | Pressure | | Temperature | | | | | | Precipitation | | | | Wind | | | | No of days (sunrise to sunset) | | Possible sunshine | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | | Station | Sea level | Average maximum | Average minimum | Average | Departure from normal | | Highest | Lowest | No of days | | Average dew point | Average relative humidity | Total | Departure from normal | No of days | | | | Snow, Sleet | Resultant speed | Resultant direction | Speed | Direction | Date | Clear, 0-3 | Partly cloudy 4-7 | Cloudy, 8-10 | Sky cover, tenths (sunrise to sunset) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | F | F | | | F | F | | | | | F | F | F | | | | | | | | | | | | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F |

CLIMATOLOGICAL DATA

ENGLISH UNITS

JULY 1970

| State and Station | Elevation (ground) | Pressure | | Temperature | | | | Precipitation | | | | Wind | | | No. of days (sunrise to sunset) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | | Station | Sea level | Average maximum | Average minimum | Average | Departure from normal | Highest | Lowest | No. of days | | Date | Max. 90° F. or above | Min. 32° F. or below | Average relative humidity | Total | In. | Departure from normal | Greatest in 24 hours | No. of days | | Snow, Sleet | Total | Maximum depth on ground | Resultant speed | Resultant direction | Speed | Direction | Date | Clear, 0-3 | Partly cloudy, 4-7 | Cloudy, 8-10 | Sky cover, tenths (sunrise to sunset) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| State and Station | Elevation (ground) | Pressure | | Temperature | | | | | | Precipitation | | | | Wind | | | No. of days (sunrise to sunset) | | Sky cover, tenths (sunrise to sunset) | | | | | | | |
|-------------------|---------------------|----------|-----------|-----------------|-----------------|---------|-----------------------|---------|------|---------------|--------------------|----------------------|----------------------|---------------------------|-----------------|---------------------|---------------------------------|-----------|---------------------------------------|------|----------------------|----------------------|---------------------------|-----|-----|-----|
| | | Station | Sea level | Average maximum | Average minimum | Average | Departure from normal | Highest | Date | Lowest | No. of days | | Total | Snow, Sleet | Resultant speed | Resultant direction | Fastest: mile | | | | | | | | | |
| | | | | | | | | | | | With thunderstorms | Greatest in 24 hours | | | | | Speed | Direction | | Date | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | Max. 90° F. or above | Min. 32° F. or below | Average relative humidity | In. | In. | In. |
| | | Fl. | Mb. | F. | F. | F. | F. | F. | F. | F. | F. | Max. 90° F. or above | Min. 32° F. or below | Average relative humidity | In. | In. | In. | In. | Mph. | Mph. | Mph. | Mph. | % | | | |
| NEW MEXICO | ALBUQUERQUE | 5311 | 840.8 | 1012.9 | 93 | 66 | 79.6 | 1.1 | 100 | 14 | 62 | 16+ | 26 | 0 | 53 | 1.22 | 0.02 | 0.40 | 0 | 48 | E | 3 | 11 | 5.3 | | |
| | CROWLEY | 4969 | | | 87 | 61 | 74.1 | -0.4 | 95 | 18 | 53 | 22 | 15 | 0 | 53 | 2.07 | -0.22 | 0.86 | 0 | 33 | W | 30 | 9 | 5.5 | | |
| | ROSWELL | 3612 | | | 84 | 65 | 80.3 | 1.7 | 105 | 11+ | 58 | 21 | 27 | 0 | 53 | 2.07 | -0.22 | 0.86 | 0 | 33 | W | 30 | 9 | 5.5 | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NEW YORK | ALBANY | 275 | 1005.1 | 1015.6 | 84 | 60 | 72.0 | -0.1 | 91 | 30+ | 47 | 27 | 4 | 0 | 60 | 1.93 | -1.56 | 0.82 | 0 | 30 | NW | 4 | 3 | 14 | 7.0 | |
| | BINGHAMTON | 1590 | 958.7 | 1016.8 | 75 | 60 | 67.9 | -0.6 | 83 | 27 | 49 | 27 | 0 | 0 | 59 | 4.50 | 0.79 | 1.61 | 0 | 28 | W | 15 | 4 | 6 | 7.5 | |
| | SUFFALO | 704 | 989.8 | 1016.0 | 80 | 62 | 71.0 | 1.2 | 86 | 31+ | 50 | 27 | 0 | 0 | 61 | 4.02 | 1.45 | 1.61 | 0 | 32 | SW | 8 | 3 | 11 | 7.3 | |
| | NEW YORK U. | 132 | 1012.9 | 1016.0 | 85 | 70 | 77.1 | 0.3 | 94 | 28 | 65 | 6 | 4 | 0 | 62 | 2.19 | -1.51 | 1.12 | 0 | 23 | SW | 16 | 3 | 11 | 7.3 | |
| | NEW YORK KENNEDY | 13 | 1015.6 | 1016.6 | 84 | 70 | 77.0 | 1.1 | 93 | 18 | 65 | 21 | 6 | 0 | 64 | 0.54 | -3.50 | 0.28 | 0 | 20 | NW | 21+ | 2 | 15 | 7.1 | |
| | NEW YORK LA GUARDIA | 11 | 1015.2 | 1016.2 | 85 | 70 | 77.1 | 0.3 | 93 | 28 | 66 | 17+ | 5 | 0 | 62 | 1.18 | -2.53 | 0.23 | 0 | 21 | NW | 16 | 4 | 15 | 12 | 6.4 |
| | ROCHESTER | 547 | 994.9 | 1014.8 | 82 | 62 | 72.2 | 0.6 | 91 | 27 | 46 | 22 | 2 | 0 | 62 | 4.91 | 2.07 | 1.40 | 0 | 35 | NW | 21+ | 6 | 10 | 15 | 6.7 |
| | SYRACUSE | 410 | 1000.0 | 1014.8 | 80 | 60 | 69.7 | -2.5 | 89 | 30 | 48 | 22 | 0 | 0 | 62 | 4.42 | 1.33 | 2.01 | 0 | 36 | SW | 3 | 4 | 11 | 16 | 7.2 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NORTH CAROLINA | ASHEVILLE | 2140 | 942.8 | 1017.6 | 86 | 63 | 74.4 | -2.0 | 95 | 4 | 53 | 7 | 5 | 0 | 66 | 5.02 | -0.83 | 2.15 | 0 | 28 | 34 | 3 | 4 | 18 | 9 | 6.0 |
| | CAPE HATTERAS R | 7 | 1016.9 | 1017.4 | 94 | 71 | 77.5 | -0.5 | 88 | 29 | 62 | 18 | 0 | 0 | 71 | 6.16 | 0.01 | 2.66 | 0 | 30 | SSW | 10 | 3 | 8 | 20 | 7.5 |
| | CHARLOTTE | 736 | 989.5 | 1016.5 | 99 | 70 | 79.5 | 0.3 | 98 | 4 | 61 | 7 | 17 | 0 | 66 | 5.73 | 0.85 | 2.62 | 0 | 34 | NW | 4 | 4 | 17 | 10 | 6.2 |
| | GREENSBORO | 897 | 985.8 | 1017.0 | 90 | 69 | 79.5 | 2.2 | 98 | 4 | 60 | 7 | 18 | 0 | 69 | 2.56 | -2.23 | 0.96 | 0 | 36 | NW | 4 | 2 | 14 | 15 | 7.1 |
| | SALEM | 434 | 1001.4 | 1016.8 | 87 | 66 | 76.1 | -1.8 | 94 | 2+ | 56 | 18 | 7 | 0 | 66 | 5.64 | 0.15 | 2.21 | 0 | 35 | NW | 20 | 4 | 15 | 15 | 5.9 |
| NORTH DAKOTA | WHALEIGH | 28 | 1015.9 | 1017.2 | 89 | 72 | 80.2 | 0.2 | 94 | 1 | 65 | 8 | 14 | 0 | 73 | 5.71 | -1.97 | 1.25 | 0 | 34 | NW | 16 | 3 | 8 | 20 | 6.5 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NORTH DAKOTA | BISMARCK | 1647 | 954.6 | 1013.3 | 85 | 57 | 71.0 | -0.7 | 96 | 25 | 46 | 20 | 9 | 0 | 56 | 1.63 | -0.56 | 1.01 | 0 | 40 | NW | 14+ | 13 | 11 | 7 | 4.5 |
| | FARGO | 836 | 981.0 | 1013.3 | 86 | 59 | 71.8 | 0.4 | 98 | 25 | 41 | 20 | 6 | 0 | 57 | 0.43 | -2.48 | 0.24 | 0 | 33 | SE | 23 | 17 | 7 | 4.5 | |
| | WILLISTON | 1899 | 945.5 | 1012.6 | 86 | 59 | 72.5 | 1.2 | 99 | 9 | 45 | 4 | 11 | 0 | 55 | 3.11 | 1.24 | 0.94 | 0 | 35 | NW | 14+ | 13 | 11 | 7 | 4.3 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| OHIO | ARCON | 1298 | 972.6 | 1016.6 | 81 | 63 | 71.9 | -0.7 | 90 | 1 | 50 | 21 | 1 | 0 | 60 | 4.22 | 0.45 | 1.79 | 0 | 20 | 21 | 8 | 2 | 12 | 17 | 7.6 |
| | CINCINNATI ABW OR | 761 | | | 85 | 65 | 74.9 | -2.0 | 98 | 2 | 52 | 21 | 6 | 0 | 61 | 3.21 | -0.38 | 1.30 | 0 | 16 | NW | 20 | 2 | 11 | 18 | 7.4 |
| | CLEVELAND | 777 | 987.5 | 1016.1 | 81 | 63 | 71.9 | -0.0 | 90 | 1 | 49 | 22+ | 1 | 0 | 63 | 4.14 | -0.83 | 1.33 | 0 | 32 | W | 29 | 2 | 11 | 18 | 7.4 |
| | COLUMBUS | 812 | 987.1 | 1016.7 | 83 | 64 | 73.5 | -1.3 | 95 | 1 | 48 | 21 | 5 | 0 | 64 | 2.62 | -0.20 | 1.18 | 0 | 25 | NW | 8+ | 2 | 11 | 18 | 7.6 |
| | DAYTON | 1002 | 986.7 | 1016.8 | 85 | 65 | 75.0 | -0.2 | 98 | 2+ | 51 | 21 | 8 | 0 | 64 | 2.64 | -0.89 | 0.66 | 0 | 27 | NW | 2 | 5 | 18 | 18 | 7.2 |
| | MAKSFIELD | 1295 | | | 83 | 64 | 73.7 | -2.0 | 92 | 1 | 50 | 21 | 5 | 0 | 62 | 5.99 | 3.10 | 1.97 | 0 | 28 | 32 | 2 | 4 | 12 | 14 | 6.8 |
| | TOLEDO | 669 | 991.2 | 1015.8 | 81 | 61 | 71.1 | -1.6 | 93 | 1 | 46 | 22 | 1 | 0 | 62 | 5.02 | 0.15 | 1.54 | 0 | 24 | NW | 2 | 5 | 12 | 14 | 6.8 |
| | YOUNGSTOWN | 1178 | 974.3 | 1016.6 | 80 | 60 | 70.0 | -0.5 | 88 | 15+ | 46 | 22 | 0 | 0 | 62 | 3.48 | -0.84 | 0.96 | 0 | 24 | 27 | 8 | 2 | 9 | 20 | 7.5 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| OKLAHOMA | OKLAHOMA CITY | 1285 | 969.9 | 1015.1 | 95 | 69 | 82.1 | -0.4 | 105 | 7 | 54 | 21 | 24 | 0 | 63 | 1.30 | -1.07 | 0.59 | 0 | 38 | NW | 3 | 11 | 11 | 9 | 5.0 |
| | TULSA | 650 | 991.5 | 1015.1 | 95 | 71 | 82.8 | 0.6 | 104 | 31+ | 55 | 21 | 25 | 0 | 65 | 0.13 | -2.81 | 0.65 | 0 | 24 | S | 7 | 17 | 10 | 4 | 3.9 |
| OREGON | ASTORIA | 8 | 1018.3 | 1018.9 | 67 | 51 | 59.3 | -1.3 | 80 | 15 | 42 | 14 | 0 | 0 | 53 | 0.31 | -0.96 | 0.18 | 0 | 23 | 29 | 7 | 3 | 9 | 14 | 6.2 |
| | BURNS | 4151 | | | 87 | 53 | 69.9 | 0.4 | 94 | 19+ | 43 | 23+ | 10 | 0 | 41 | 0.02 | -0.32 | 0.02 | 0 | 30 | 36 | 13 | 17 | 12 | 7 | 3.2 |
| | EUGENE | 350 | 1003.4 | 1016.7 | 88 | 52 | 69.9 | 3.3 | 99 | 14+ | 43 | 13 | 13 | 0 | 50 | 1 | -0.27 | 0.0 | 0.0 | 26 | 36 | 13 | 20 | 4 | 3.5 | |
| | HEASTON | 4050 | 878.8 | 1014.6 | 79 | 53 | 65.8 | 2.4 | 92 | 15 | 41 | 20+ | 3 | 0 | 38 | 0.47 | -0.03 | 0.26 | 0 | 28 | 30 | 13 | 20 | 6 | 2.8 | |
| | MEDFORD | 1298 | 967.8 | 1014.6 | 86 | 56 | 75.8 | 3.8 | 106 | 14 | 50 | 20+ | 26 | 0 | 49 | 0.00 | -0.21 | 0.00 | 0 | 17 | 31 | 16+ | 28 | 2 | 1 | 3.3 |
| | PENDELTON | 1482 | 961.7 | 1014.4 | 91 | 59 | 74.8 | 1.2 | 103 | 15+ | 49 | 1 | 17 | 0 | 44 | 0.08 | -0.14 | 0.04 | 0 | 29 | 28 | 21 | 18 | 7 | 3.5 | |
| | PORTLAND | 12 | 1015.6 | 1016.9 | 83 | 56 | 69.2 | 2.0 | 102 | 15 | 50 | 13 | 4 | 0 | 52 | 0.05 | -0.36 | 0.04 | 0 | 21 | NW | 7 | 19 | 5 | 7 | 3.9 |
| | SALMON | 196 | 1009.8 | 1017.2 | 86 | 49 | 67.2 | 1.1 | 101 | 15 | 39 | 13 | 10 | 0 | 49 | 0.01 | -0.34 | 0.01 | 0 | 20 | 33 | 23 | 19 | 5 | 7 | 3.7 |
| | SEXTON COMMUNITY D | 3836 | 985.9 | 1014.8 | 79 | 54 | 56.4 | 2.8 | 90 | 14 | 44 | 28 | 1 | 0 | 49 | 0.00 | -0.32 | 0.00 | 0 | 28 | 34 | 23+ | 27 | 3 | 1 | 1.1 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PACIFIC AREA | GUAM TACUAC R | 361 | 997.6 | 1010.2 | 87 | 71 | 78.9 | -0.6 | 90 | 13 | 68 | 31+ | 1 | 0 | 75 | 8.99 | 0.01 | 1.75 | 0 | 16 | W | 19+ | 0 | 12 | 19 | 7.9 |
| | JOHNSON | 7 | 1014.2 | 1015.0 | 85 | 76 | 80.5 | -0.6 | 87 | 30 | 71 | 25 | 0 | 0 | 72 | 1.59 | 0.29 | 0.71 | 0 | 31 | ESE | 21 | 7 | 14 | 10 | 6.3 |
| | KODOR D | 94 | 1006.4 | 1010.1 | 89 | 76 | 82.1 | 1.2 | 91 | 19 | 73 | 26+ | 6 | 0 | 76 | 12.61 | -2.56 | 4.06 | 0 | 27 | E | 12 | 0 | 6 | 25 | 9.0 |
| | KWAJALEIN | 8 | 1009.8 | 1010.4 | 87 | 78 | 82.0 | 0.4 | 90 | 21 | 74 | 14 | 1 | 0 | 76 | 6.84 | -2.07 | 1.83 | 0 | 26 | 12 | 22 | 2 | 8 | 21 | 8.1 |
| | MAJURO | 10 | 1010.5 | 1010.9 | 85 | 77 | 81.1 | 0.9 | 87 | 10+ | 74 | 31+ | 0 | 0 | 75 | 7.73 | -4.80 | 2.02 | 0 | 26 | E | 22+ | 2 | 14 | 15 | 7.2 |

See footnotes at end of table

CLIMATOLOGICAL DATA

ENGLISH UNITS

JULY 1970

| State and Station | Elevation (ground) | Pressure | | Temperature | | | | | | Precipitation | | | | Wind | | | | No. of days
(sunrise to sunset) | | Possible sunshine
(sky cover, tenths
[sunrise to sunset]) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------|--------------------|--------------|-----------|-----------------|-----------------|---------|-----------------------|----|---------|---------------|--------|------|-------------|------|---------------------------|--------------|------------------------------|------------------------------------|----|---|-----------------------------|---------------------------------------|--|------------------------|---------------------|--------------|-----------|------|--------------|------------|-------------------|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| | | Station
Q | Sea level | Average maximum | Average minimum | Average | Departure from normal | | Highest | Date | Lowest | Date | No. of days | | Average relative humidity | Total
in. | Departure from normal
in. | | | | Greatest in 24 hours
in. | With thunderstorms
01 inch or more | Snow, Sleet
Maximum depth
on ground
in. | Resultant speed
Mph | Resultant direction | Speed
Mph | Direction | Date | Fastest mile | Clear, 0-3 | Partly cloudy 4-7 | Cloudy 8-10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | F. | F. | | | | | F. | F. | | | | F. | F. | | | | | | | | | | | | | | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. |

[illegible]

Data from airport unless otherwise specified. U indicates Urban, R indicates Rural, sites.

Precipitation data in column headed "greatest in 24 hours" are computed on a 24-hour basis without regard to calendar day-data may be added precipitation with a measurable amount from the last day of the previous month or the first day of the following month.

wind directions under resultant direction are in tens of degrees,

Value entered in column "Fastest Mile" is the highest observed 1-minute wind speed when the direction is in tens of degrees. These stations are not equipped with a recording anemometer from which "Fastest Mile" data can be evaluated.

B Number of days maximum 70 F. or above for Alaskan Stations.

And also on an earlier date or dates.

0 Station pressures apply to elevations shown in the "Elevations - Station Pressure" table of the annual issue of this publication.

METRIC UNITS

JULY 1970

[illegible]

see footnotes at end of table

JULY 1970

See footnotes or end of table

CLIMATOLOGICAL DATA

METRIC UNITS

| State and Station | Elevation-ground | Station Q | Pressure | | Temperature | | | | | | Precipitation | | | Winds | | | | No. of days
surface to
surface | Clouds, 8/16 | Sky
surface to
surface | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|------------------|-----------|-----------|------|-------------|------|-----------------|-----------------|---------|-----------------------|---------------|------|--------|-------|----------------------|-------------------|-------------------|--------------------------------------|--------------|------------------------------|---------------------------|-------|----|----|----------------------|---------------------------------|---------------------|-------|------|------|----------------------------|-----------------|---------------------|--------------|--------------------------------|------|-----------|-------------------|----------------|--|---|--|---|--|----|--|----|--|-----|--|----|--|-----|--|
| | | | Sea level | mb | C | F | Average maximum | Average minimum | Average | Departure from normal | Highest | Date | Lowest | Date | Max 32.7 °C or above | Min 0 °C or lower | Average dew point | | | | Average relative humidity | Total | Mm | Mm | Greatest in 24 hours | No. of
days
25 mm or more | With
understorey | Total | Mm | Mm | Maximum depth
on ground | Resultant speed | Resultant direction | Speed
Mph | Direction
for 16 kilometers | Date | Clear 0-3 | Partly cloudy 4-7 | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | No. of
days | | C | | F | | Mm | | Mm | | Mph | | Mm | | Mph | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| INDIANA
FORT WAYNE
INDIANAPOLIS
SOUTH BEND | 241 | 986.8 | 1016.2 | 28.3 | 17.8 | 23.1 | -0.4 | 35.0 | 1 | 8.9 | 21 | 6 | 0 | 16.7 | 69 | 132 | 46 | 26 | 12 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.1 | 2.5 | 11.6 | NW | 27+ | 5 | 13 | 13 | 6.7 | | | | | | | | | | | | | | | | | |
| | 241 | 987.8 | 1016.4 | 29.4 | 18.3 | 24.0 | 0.0 | 37.2 | 2 | 10.0 | 21+ | 10 | 0 | 18.3 | 72 | 113 | 24 | 33 | 10 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.1 | 2.5 | 11.6 | NW | 27 | 5 | 12 | 13 | 6.4 | | | | | | | | | | | | | | | | | |
| | 236 | 987.8 | 1015.6 | 27.2 | 17.2 | 22.2 | -0.9 | 34.4 | 2 | 9.4 | 6 | 3 | 0 | 17.2 | 75 | 105 | 17 | 46 | 13 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.1 | 2.5 | 11.6 | NW | 22 | 14 | 5 | 4.4 | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| IOWA
BUPLINGTON
DES MOINES
DUBUQUE
ST LOUIS CITY
WATERLOO | 211 | 981.7 | 1015.9 | 30.0 | 17.8 | 23.8 | -0.9 | 37.8 | 31 | 10.6 | 21 | 12 | 0 | 17.8 | 66 | 56 | -31 | 31 | 7 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.3 | 2.2 | 13.0 | NW | 32 | 14 | 13 | 4.8 | | | | | | | | | | | | | | | | | | |
| | 286 | 981.7 | 1015.9 | 31.1 | 18.0 | 24.6 | C.2 | 37.2 | 14+ | 11.1 | 21 | 13 | 0 | 16.7 | 62 | 50 | -28 | 15 | 8 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.0 | 2.0 | 12.0 | NW | 2 | 10 | 3 | 4.2 | | | | | | | | | | | | | | | | | | | |
| | 322 | 982.3 | 1014.7 | 28.3 | 16.1 | 22.3 | -0.2 | 33.9 | 1 | 7.2 | 5 | 5 | 0 | 16.7 | 62 | 108 | 19 | 31 | 11 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.7 | 1.6 | 15.2 | NW | 18 | 10 | 14 | 4.7 | | | | | | | | | | | | | | | | | | | |
| | 334 | 975.6 | 1014.7 | 30.6 | 17.8 | 23.9 | -1.3 | 36.1 | 10 | 10.0 | 20 | 12 | 0 | 16.7 | 65 | 48 | -31 | 12 | 8 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.0 | 2.2 | 13.2 | NW | 18 | 10 | 12 | 4.9 | | | | | | | | | | | | | | | | | | | |
| KANSAS
CONCORDIA
DOUGLASS
GOSSARD
GOSSARD
WICHITA | 265 | 984.4 | 1015.6 | 27.9 | 16.1 | 22.5 | -0.7 | 35.0 | 1 | 7.8 | 5 | 8 | 0 | 15.6 | 67 | 105 | 9 | 28 | 11 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.0 | 2.2 | 13.2 | NW | 18 | 10 | 12 | 4.0 | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| KENTUCKY
COVINGTON
LEXINGTON
LOUISVILLE | 448 | 962.4 | 1014.1 | 32.8 | 18.3 | 25.7 | -1.1 | 39.4 | 31 | 10.0 | 21 | 19 | 0 | 16.1 | 59 | 91 | -19 | 52 | 7 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3.4 | 1.6 | 22.4 | N | 18 | 14 | 3 | 3.7 | | | | | | | | | | | | | | | | | | | |
| | 787 | 927.2 | 1013.7 | 34.4 | 19.4 | 27.1 | -0.3 | 41.1 | 18 | 10.6 | 21 | 24 | 0 | 14.4 | 51 | 44 | -15 | 20 | 7 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 3.2 | 1.6 | 17.0 | NW | 31 | 14 | 6 | 5.1 | | | | | | | | | | | | | | | | | | | | |
| | 1114 | 889.6 | 1013.2 | 32.8 | 16.1 | 24.5 | -0.3 | 39.4 | 18 | 10.6 | 21 | 20 | 0 | 13.3 | 56 | 49 | -19 | 14 | 12 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 2.1 | 1.6 | 13.0 | NW | 25+ | 12 | 10 | 4.6 | | | | | | | | | | | | | | | | | | | | |
| | 267 | 984.1 | 1015.5 | 32.8 | 18.3 | 26.4 | -1.2 | 39.4 | 31 | 10.6 | 21 | 19 | 0 | 13.2 | 62 | 35 | -56 | 20 | 5 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 1.5 | 1.8 | 15.2 | NW | 31 | 14 | 5 | 4.3 | | | | | | | | | | | | | | | | | | | | |
| LOUISIANA
ALEXANDRIA
BATON ROUGE
LAKE CHARLES
NEW ORLEANS
SHREVEPORT | 403 | 967.8 | 1014.4 | 34.4 | 20.0 | 27.4 | 0.2 | 41.1 | 18 | 11.7 | 22+ | 25 | 0 | 13.9 | 46 | 12 | -81 | 6 | 5 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 3.0 | 1.7 | 11.6 | S | 29+ | 14 | 10 | 7 | 4.5 | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MAINE
CARBONDALE
PORTLAND | 190 | 990.9 | 1015.1 | 27.2 | 15.0 | 20.9 | 2.9 | 32.8 | 28+ | 7.2 | 14 | 4 | 0 | 17.2 | 69 | 88 | -4 | 57 | 9 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 1.6 | 2.5 | 9.4 | SS | 20 | 13 | 16 | 7.3 | | | | | | | | | | | | | | | | | | | | |
| | 13 | 1012.9 | 1015.1 | 27.2 | 15.6 | 21.2 | 1.1 | 33.9 | 24 | 10.3 | 14 | 5 | 0 | 17.2 | 70 | 86 | -15 | 38 | 8 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0.9 | 2.4 | 12.5 | NW | 30 | 10 | 11 | 5.8 | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | 1.0 | 2.3 | 14.3 | NW | 30 | 10 | 11 | 5.6 | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | 0.9 | 2.3 | 14.3 | NW | 30 | 10 | 11 | 5.6 | | | | | | | | | | | | | | | | | | | | |
| MARYLAND
BALTIMORE | 45 | 1011.2 | 1016.6 | 30.6 | 20.0 | 25.1 | 0.2 | 34.4 | 19 | 15.0 | 7 | 10 | 0 | 17.2 | 65 | 110 | 3 | 33 | 12 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 1.1 | 2.3 | 18.8 | NW | 4 | 5 | 10 | 16 | 6.7 | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| MASSACHUSETTS
BLUE HILL OBS P
WORCESTER | 192 | 984.9 | 1015.7 | 28.3 | 18.9 | 23.5 | 0.3 | 33.3 | 28 | 14.4 | 13 | 7 | 0 | 16.7 | 69 | 29 | -54 | 11 | 5 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 2.4 | 2.1 | 11.6 | WSW | 21 | 5 | 16 | 10 | 6.1 | | | | | | | | | | | | | | | | | | | |
| | 301 | 980.4 | 1016.9 | 27.2 | 16.7 | 21.7 | 0.7 | 33.2 | 26 | 11.7 | 13 | 3 | 0 | 15.6 | 69 | 32 | -41 | 17 | 4 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 2.3 | 2.4 | 8.9 | SS | 17+ | 8 | 10 | 13 | 6.2 | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| MICHIGAN
ALPENA
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FLINT
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GRAND TRUNK
LANSING
MARQUETTE U
MUSKOGEE | 210 | 989.2 | 1014.1 | 26.7 | 14.4 | 20.6 | 1.7 | 33.3 | 26 | 6.7 | 6 | 2 | 0 | 15.6 | 75 | 112 | 39 | 40 | 12 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0.8 | 2.5 | 10.3 | E | 19 | 4 | 11 | 16 | 6.6 | | | | | | | | | | | | | | | | | | | |
| | 189 | 990.9 | 1014.7 | 27.8 | 17.2 | 22.6 | 0.1 | 33.9 | 1 | 12.2 | 21 | 6 | 0 | 16.7 | 66 | 84 | 13 | 20 | 12 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 1.6 | 2.5 | 15.6 | NW | 3 | 5 | 10 | 16 | 6.8 | | | | | | | | | | | | | | | | | | | |
| | 235 | 987.1 | 1014.4 | 26.1 | 16.1 | 21.3 | -0.4 | 31.7 | 1 | 9.4 | 22 | 2 | 0 | 17.2 | 73 | 84 | 5 | 19 | 13 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 1.9 | 2.5 | 21.9 | NW | 3 | 5 | 10 | 16 | 6.8 | | | | | | | | | | | | | | | | | | | |
| | 239 | 986.1 | 1014.8 | 27.9 | 16.7 | 22.3 | -0.1 | 32.8 | 2 | 7.2 | 21 | 4 | 0 | 16.1 | 71 | 161 | 81 | 5 | 11 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 2.1 | 2.5 | 14.9 | NW | 3 | 5 | 10 | 16 | 6.2 | | | | | | | | | | | | | | | | | | | |
| MINNESOTA
INTERNATIONAL FALLS
MINNEAPOLIS
ROCHESTER
ST CLOUD | 266 | 983.7 | 1014.9 | 26.7 | 15.0 | 20.7 | -1.2 | 30.6 | 31+ | 6.1 | 6 | 2 | 0 | 16.1 | 78 | 180 | 27 | 20 | 12 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 2.1 | 2.5 | 10.3 | NW | 15 | 6 | 10 | 15 | 6.4 | | | | | | | | | | | | | | | | | | | |
| | 206 | 982.2 | 1014.8 | 25.6 | 15.6 | 20.4 | -0.2 | 32.2 | 25 | 8.9 | 19+ | 3 | 0 | 15.6 | 75 | 136 | 55 | 32 | 13 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 2.1 | 2.5 | 15.2 | SW | 7 | 10 | 15 | 6.0 | | | | | | | | | | | | | | | | | | | | |
| | 191 | 992.2 | 1014.8 | 27.2 | 16.7 | 21.9 | 0.1 | 31.7 | 11+ | 5.6 | 6 | 0 | 0 | 15.6 | 69 | 148 | -13 | 11 | 12 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 1.7 | 2.6 | 10.7 | E | 19 | 4 | 14 | 13 | 6.2 | | | | | | | | | | | | | | | | | | | |
| | 220 | 987.1 | 1013.3 | 24.4 | 12.2 | 18.3 | 0.2 | 30.6 | 26 | 5.6 | 6 | 0 | 0 | 13.3 | 74 | 103 | 40 | 38 | 11 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0.5 | 2.9 | 11.6 | E | 19 | 4 | 14 | 13 | 6.5 | | | | | | | | | | | | | | | | | | | |
| MISSISSIPPI
DULUTH
INTERNATIONAL FALLS
MINNEAPOLIS
ROCHESTER
ST CLOUD | 435 | 964.1 | 1014.7 | 27.2 | 13.9 | 20.4 | 1.8 | 32.2 | 30 | 7.2 | 5 | 1 | 0 | 13.3 | 65 | 91 | -1 | 52 | 11 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 1.3 | 2.5 | 15.2 | NW | 7 | 11 | 12 | 8 | 5.1 | | | | | | | | | | | | | | | | | | | |
| | 359 | 970.9 | 1013.2 | 28.3 | 14.4 | 21.2 | 2.5 | 34.4 | 30 | 7.8 | 20 | 4 | 0 | 13.3 | 64 | 42 | -46 | 11 | 9 | 10 | 0 | 0 | 0 | 0 | 0 | 1.1 | 2.5 | 11.2 | NW | 23 | 24 | 9 | 12 | 5.6 | | | | | | | | | | | | | | | | | | | | |
| | 294 | 984.8 | 1014.6 | 30.0 | 17.8 | 24.0 | 1.6 | 35.0 | 26+ | 10.6 | 5 | 13 | 0 | 16.1 | 63 | 93 | 10 | 27 | 12 | 11 | 0 | 0 | 0 | 0 | 0 | 1.3 | 2.3 | 17.9 | SW | 31 | 13 | 12 | 6 | 4.6 | | | | | | | | | | | | | | | | | | | | |
| | 393 | 968.2 | 1015.2 | 27.8 | 15.6 | 21.6 | -0.8 | 33.3 | 17 | 8.3 | 20 | 1 | 0 | 15.6 | 71 | 109 | 16 | 37 | 12 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 2.0 | 2.3 | 17.4 | SS | 34 | 18 | 11 | 13 | 5.2 | | | | | | | | | | | | | | | | | | | |
| NEW YORK
ST CLOUD | 315 | 977.3 | 1014.3 | 29.4 | 16.1 | 22.7 | 1.1 | 34.4 | 17 | 9.4 | 20+ | 7 | 0 | 16.1 | 65 | 83 | 0 | 48 | 6 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 1.5 | 1.7 | 11.5 | SS | 15 | 11 | 5 | 4.3 | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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CLIMATOLOGICAL DATA

METRIC UNITS

Page 1-7

| State and Station | Elevation (ground) | Pressure | | Temperature | | | | | | | | | | Precipitation | | | | Wind | | No. of days with | | | Station remarks | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | | Station | Sea level | Temperature | | | | | No. of days | Average dew point | Average relative humidity | Precipitation | | Resultant speed | Resultant direction | Speed | Direction | Date | Clear 0-3 | Partly cloudy 4-7 | Cloudy 8-10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | Average maximum | Average minimum | Average | Departure from normal | Highest | | | | Date | Lowest | | | | | | | | | Date | | Max 32.2 °C or above | Min 0 °C or lower | Total | Departure from normal | Greatest in 24 hours | 25 mm or more | No. of days | With thunderstorms | Maximum depth on ground | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M. | Mb | Mb | Mb | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. 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| C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C. | C.</ |

JULY 1970

JULY 1970

See footnotes at end of table

CLIMATOLOGICAL DATA

METRIC UNITS

JULY 1970

| State and Station | Elevation (ground) | Pressure | | Temperature | | | | | Precipitation | | | | Wind | | | | No. of days (sunrise to sunset) | | | | | | | | | | | |
|-------------------|--------------------|----------|-----------|-----------------|------|-----------------|------|---------|-----------------------|---------|--------|------|------------------|-----------------|-------------------|---------------------------|---------------------------------|--------------------|-------------|--------|-----------|---------------------------------|-------------------|-------------|-------------------|-----|----|---|
| | | Station | Sea level | Average maximum | | Average minimum | | Average | Departure from normal | Highest | Lowest | Date | Max 32° or above | Min 0° or lower | Average dew point | Average relative humidity | Precipitation | | No. of days | Wind | | No. of days (sunrise to sunset) | | | | | | |
| | | | | C | F | C | F | | | | | | | | | | Total | With thunderstorms | | Speed | Direction | | | | | | | |
| | | M. | Mb. | C | F | C | F | C | F | C | F | C | F | C | F | C | F | Mm. | In. | M.p.h. | Direction | Clear, 0-3 | Partly cloudy 4-7 | Cloudy 8-10 | Possible sunshine | | | |
| SOUTH CAROLINA | 12 | 1015.2 | 1017.1 | 33.9 | 22.8 | 28.1 | 82.4 | 1.1 | 37.8 | 18.3 | 65 | 8 | 26 | 0 | 21.7 | 74 | 151 | -45 | 48 | 13 | 18 | 0 | 4 | 14 | 13 | 6.7 | 63 | |
| | 3 | 1015.2 | 1017.1 | 33.9 | 22.8 | 28.1 | 82.4 | 1.1 | 37.8 | 18.3 | 65 | 8 | 26 | 0 | 21.7 | 74 | 151 | -45 | 48 | 13 | 18 | 0 | 4 | 14 | 13 | 6.7 | 63 | |
| | 65 | 1008.9 | 1016.7 | 35.0 | 22.2 | 28.6 | 83.5 | 1.0 | 39.4 | 34 | 15.6 | 6 | 28 | 0 | 21.1 | 70 | 120 | -141 | 20 | 10 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 292 | 983.1 | 1017.0 | 32.8 | 20.0 | 26.3 | 79.3 | 0.2 | 37.2 | 34 | 16.1 | 7 | 20 | 0 | 18.9 | 69 | 59 | -59 | 22 | 10 | 15 | 0 | 0 | 0 | 0 | 0 | 0 | |
| SOUTH DAKOTA | 395 | 967.5 | 1013.6 | 31.1 | 13.9 | 22.5 | 72.5 | -0.6 | 37.2 | 18 | 6.1 | 20 | 13 | 0 | 12.8 | 59 | 52 | -12 | 24 | 6 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 390 | 967.8 | 1013.3 | 31.7 | 16.1 | 23.8 | 74.8 | -0.6 | 38.3 | 29 | 7.8 | 20 | 15 | 0 | 15.0 | 62 | 88 | -42 | 24 | 6 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 964 | 905.5 | 1013.8 | 31.1 | 14.4 | 22.6 | 72.5 | -0.6 | 36.7 | 25 | 10.0 | 20 | 12 | 0 | 11.7 | 64 | 76 | -19 | 12 | 6 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 432 | 963.8 | 1014.4 | 30.0 | 16.1 | 22.9 | 73.2 | -0.6 | 36.7 | 29 | 7.2 | 20 | 12 | 0 | 15.6 | 66 | 76 | -4 | 19 | 11 | 11 | 3 | 0 | 0 | 0 | 0 | 0 | 0 |
| TENNESSEE | 459 | 964.1 | 1017.3 | 31.7 | 18.3 | 24.9 | 76.6 | 0.6 | 35.0 | 3 | 12.2 | 17 | 15 | 0 | 17.2 | 69 | 75 | -66 | 17 | 14 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 203 | 991.9 | 1016.1 | 32.8 | 20.6 | 26.5 | 79.9 | -0.6 | 38.9 | 3 | 14.4 | 17 | 22 | 0 | 19.4 | 70 | 99 | -31 | 57 | 7 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 299 | 982.1 | 1016.3 | 31.1 | 20.6 | 25.8 | 78.0 | -0.1 | 36.1 | 14 | 15.0 | 7 | 13 | 0 | 18.3 | 67 | 79 | -43 | 31 | 11 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 79 | 1006.8 | 1016.8 | 31.7 | 21.7 | 26.5 | 80.0 | -0.9 | 37.8 | 3 | 15.0 | 6 | 18 | 0 | 19.4 | 67 | 92 | -37 | 42 | 1 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TEXAS | 180 | 995.3 | 1016.6 | 31.1 | 19.4 | 25.1 | 77.2 | -1.7 | 36.1 | 2 | 12.8 | 6 | 16 | 0 | 18.3 | 69 | 39 | -33 | 35 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 276 | 995.3 | 1016.6 | 31.1 | 18.3 | 24.8 | 76.4 | -0.3 | 36.7 | 3 | 12.2 | 6 | 15 | 0 | 18.3 | 69 | 39 | -112 | 23 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 537 | 956.3 | 1014.2 | 35.6 | 22.8 | 29.1 | 84.4 | 0.7 | 39.4 | 6 | 16.7 | 21 | 29 | 0 | 15.6 | 47 | 1 | -58 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1098 | 892.7 | 1012.7 | 34.4 | 20.0 | 27.1 | 81.0 | 0.1 | 40.0 | 10 | 14.4 | 22 | 26 | 0 | 12.2 | 44 | 35 | -24 | 35 | 3 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| UTAH | 1286 | 873.0 | 1013.9 | 33.3 | 16.7 | 24.8 | 76.6 | -0.2 | 37.8 | 20 | 8.3 | 1 | 20 | 0 | 8.9 | 41 | 22 | 7 | 12 | 7 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1291 | 872.3 | 1014.7 | 32.2 | 18.9 | 25.7 | 78.3 | -0.6 | 36.1 | 19 | 12.8 | 1 | 17 | 0 | 8.9 | 41 | 22 | 7 | 12 | 7 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 101 | 1002.4 | 1014.8 | 27.2 | 15.6 | 21.4 | 70.5 | 0.9 | 34.4 | 30 | 8.9 | 19 | 5 | 0 | 15.6 | 71 | 49 | -49 | 28 | 12 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 279 | 1015.6 | 1016.5 | 30.0 | 18.3 | 24.2 | 75.6 | -0.4 | 36.7 | 1 | 13.9 | 18 | 7 | 0 | 19.4 | 75 | 120 | -13 | 24 | 17 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| VERMONT | 50 | 1010.5 | 1016.7 | 31.7 | 20.0 | 25.7 | 78.1 | 0.1 | 35.6 | 4 | 15.0 | 7 | 17 | 0 | 20.0 | 76 | 120 | -22 | 34 | 12 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 350 | 975.6 | 1016.8 | 31.1 | 18.3 | 24.5 | 76.1 | -0.3 | 35.1 | 1 | 12.8 | 6 | 11 | 0 | 17.8 | 70 | 123 | -25 | 22 | 16 | 13 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3 | 1010.5 | 1016.7 | 31.7 | 20.0 | 25.7 | 78.1 | 0.1 | 35.6 | 4 | 15.0 | 7 | 17 | 0 | 20.0 | 76 | 120 | -22 | 34 | 12 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3 | 1010.5 | 1016.7 | 31.7 | 20.0 | 25.7 | 78.1 | 0.1 | 35.6 | 4 | 15.0 | 7 | 17 | 0 | 20.0 | 76 | 120 | -22 | 34 | 12 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| WASHINGTON | 59 | 1010.5 | 1017.6 | 26.1 | 20.0 | 23.0 | 72.8 | -0.3 | 28.9 | 18 | 16.7 | 21 | 0 | 0 | 17.8 | 70 | 123 | -25 | 22 | 16 | 13 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 59 | 1010.5 | 1017.6 | 26.1 | 20.0 | 23.0 | 72.8 | -0.3 | 28.9 | 18 | 16.7 | 21 | 0 | 0 | 17.8 | 70 | 123 | -25 | 22 | 16 | 13 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 59 | 1010.5 | 1017.6 | 26.1 | 20.0 | 23.0 | 72.8 | -0.3 | 28.9 | 18 | 16.7 | 21 | 0 | 0 | 17.8 | 70 | 123 | -25 | 22 | 16 | 13 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 59 | 1010.5 | 1017.6 | 26.1 | 20.0 | 23.0 | 72.8 | -0.3 | 28.9 | 18 | 16.7 | 21 | 0 | 0 | 17.8 | 70 | 123 | -25 | 22 | 16 | 13 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

See footnotes at end of table

CLIMATOLOGICAL DATA

METRIC UNITS

JULY 1970

| State and Station | Elevation (ground) | Pressure | | Temperature | | | | | | | | | | Precipitation | | | | | Wind | | | | No. of days
(sunrise to sunset) | | Sky cover tenths
(sunrise to sunset) | % | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------|--------------------|----------|-----------|-----------------|----|-----------------|---|---------|---|-----------------------|---|---------|---|---------------|---|--------|---|------|------|-------------|---|-------------------|------------------------------------|---|---|---|---------------------------|---|---------------|---|------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Station | Sea level | Average maximum | | Average minimum | | Average | | Departure from normal | | Highest | | Date | | Lowest | | Date | | No. of days | | Average dew point | | | | | Average relative humidity | | Precipitation | | Wind | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | O | Mb | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | | | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F |

Data from airport unless otherwise specified. U indicates Urban, R indicates Rural, sites.

Precipitation data in column headed "Greatest in 24 hours" are computed on a 24-hour basis without regard to calendar day - data may include precipitation with a measurable amount from the last day of the previous month or the first day of the following month.

Wind directions under resultant direction are in tens of degrees.

Value entered in column "Fastest Mile" is the highest observed 1-minute wind speed when the direction is in tens of degrees. These stations are not equipped with a recording anemometer from which "Fastest Mile" data can be evaluated.

B Number of days maximum 21.1°C. or above for Alaskan Stations.

Y Peak Gust.

+ And also on an earlier date or dates.

Ø Station pressures apply to elevations shown in the "Elevations - Station Pressure" table of the annual issue of this publication.

Data in this table are obtained by conversion from data in the English Units table.

(Base 65°F.)

Data from airport unless otherwise specified.
U indicates Urban, R indicates Rural, sites.

COOLING DEGREE DAYS

(Base 65°F.)

JULY 1970

| State and station | Current season | | Normals January through this month | State and station | Current season | | Normals January through this month | State and station | Current season | | Normals January through this month | State and station | Current season | | Normals January through this month |
|---------------------|----------------|-----------------------------------|------------------------------------|---------------------|----------------|-----------------------------------|------------------------------------|---------------------|----------------|-----------------------------------|------------------------------------|-------------------|----------------|-----------------------------------|------------------------------------|
| | This month | Period January through this month | | | This month | Period January through this month | | | This month | Period January through this month | | | This month | Period January through this month | |
| ALABAMA | | | | HAWAII | | | | NEBRASKA | | | | SOUTH DAKOTA | | | |
| BIRMINGHAM | 492 | 1166 | | HILO | 290 | 1653 | | NORTH PLATTE | 300 | 507 | | ABERDEEN | 253 | 408 | |
| HUNTSVILLE | 408 | 946 | | HONOLULU | 540 | 2834 | | OMAHA | 386 | 876 | | HURON | 320 | 481 | |
| MOBILE | 564 | 1619 | | KAHULUI | 450 | 2140 | | SCOTTSBLUFF | 254 | 360 | | RAPID CITY | 248 | 351 | |
| MONTGOMERY | 516 | 1277 | | LIHUE | 455 | 2267 | | VALENTINE | 341 | 571 | | SIOUX FALLS | 280 | 512 | |
| ALASKA | | | | IDAHOW | | | | NEVADA | | | | TENNESSEE | | | |
| ANCHORAGE | 0 | 0 | | BOISE | 357 | 582 | | ELKO | 166 | 214 | | BRISTOL | 373 | 727 | |
| ANNETTE | 0 | 0 | | LEWISTON | 354 | 590 | | ELY | 89 | 120 | | CHATTANOOGA | 462 | 965 | |
| BARROW | 0 | 0 | | POCATELLO | 197 | 288 | | LAS VEGAS | 818 | 1733 | | KNOXVILLE | 427 | 880 | |
| BARTER ISLAND | 0 | 0 | | ILLINOIS | | | | RENO | 256 | 362 | | MEMPHIS | 463 | 1196 | |
| BETHEL | 0 | 0 | | CAIRO U | 453 | 1067 | | WINNEMUCCA | 279 | 405 | | NASHVILLE | 386 | 870 | |
| BETTES | 2 | 2 | | CHICAGO O HARE | 309 | 598 | | | | | | OAK RIDGE R | 371 | 767 | |
| BIG DELTA | 0 | 0 | | CHICAGO MIDWAY | 349 | 706 | | NEW HAMPSHIRE | | | | | | | |
| COLD BAY | 0 | 0 | | MOLINE | 341 | 690 | | CONCORD | 196 | 282 | | TEXAS | | | |
| FAIRBANKS | 22 | 22 | | PEORIA | 317 | 618 | | MT WASHINGTON OBS | 0 | 0 | | ABILENE | 607 | 1353 | |
| GULKANA | 2 | 2 | | ROCKFORD | 276 | 513 | | | | | | AMARILLO | 495 | 1012 | |
| HOMER | 0 | 0 | | SPRINGFIELD | 361 | 757 | | NEW JERSEY | | | | AUSTIN | 589 | 1459 | |
| JUNEAU | 0 | 0 | | INDIANA | | | | ATLANTIC CITY | 279 | 478 | | BROWNSVILLE | 597 | 2038 | |
| KING SALMON | 0 | 0 | | EVANSVILLE | 329 | 761 | | ATLANTIC CITY U | 240 | 415 | | CORPUS CHRISTI | 452 | 1709 | |
| KOTZEBUE | 3 | 3 | | FORT WAYNE | 281 | 593 | | NEWARK | 384 | 669 | | DALLAS | 644 | 1588 | |
| MC GRATH | 0 | 0 | | INDIANAPOLIS | 327 | 688 | | TRENTON U | 359 | 618 | | DEL RIO | 442 | 1642 | |
| OME | 0 | 0 | | SOUTH BEND | 240 | 480 | | | | | | EL PASO | 559 | 1329 | |
| ST. PAUL ISLAND | 0 | 0 | | IOWA | | | | NEW MEXICO | | | | FORT WORTH | 595 | 1384 | |
| SHEMYA | 0 | 0 | | BUPLINGTON | 316 | 631 | | ALBUQUERQUE | 461 | 812 | | GALVESTON U | 557 | 1514 | |
| SUMMIT | 0 | 0 | | DES MOINES | 368 | 768 | | CLAYTON | 297 | 495 | | HOUSTON INTERCON | 513 | 1376 | |
| TALKEETNA | 0 | 0 | | DUROQUE | 239 | 487 | | ROSWELL | 482 | 940 | | LUBBOCK | 498 | 1024 | |
| UNALAKLEET | 0 | 0 | | SIOUX CITY | 323 | 714 | | | | | | MIDLAND | 542 | 1173 | |
| YAKUTAT | 0 | 0 | | WATERLOO | 254 | 541 | | NEW YORK | | | | PORT ARTHUR | 617 | 1673 | |
| ARIZONA | | | | KANSAS | | | | ALBANY | 225 | 380 | | SAN ANGELO | 575 | 1394 | |
| FLAGSTAFF | 99 | 143 | | CONCORDIA | 421 | 875 | | BINGHAMTON | 117 | 212 | | SAN ANTONIO | 592 | 1563 | |
| PHOENIX | 938 | 2163 | | DODGE CITY | 498 | 978 | | BUFFALO | 197 | 342 | | VICTORIA | 561 | 1570 | |
| TUCSON | 693 | 1617 | | GOODLAND | 355 | 616 | | NEW YORK U | 385 | 669 | | WACO | 629 | 1531 | |
| WINSLOW | 441 | 719 | | TOPEKA | 407 | 830 | | NEW YORK KENNEDY | 378 | 588 | | WICHITA FALLS | 622 | 1396 | |
| YUMA | 921 | 2149 | | WICHITA | 513 | 1041 | | NEW YORK LA GUARDIA | 382 | 618 | | | | | |
| ARKANSAS | | | | KENTUCKY | | | | ROCHESTER | 235 | 446 | | UTAH | | | |
| FORT SMITH | 516 | 1200 | | COVINGTON | 336 | 740 | | SYRACUSE | 160 | 264 | | MILFORD | 322 | 453 | |
| LITTLE ROCK | 471 | 1210 | | LEXINGTON | 295 | 657 | | | | | | SALT LAKE CITY | 365 | 549 | |
| CALIFORNIA | | | | LOUISVILLE | 343 | 770 | | NORTH CAROLINA | | | | WENDOVER | 419 | 669 | |
| BAKERSFIELD | 727 | 1517 | | LOUISIANA | | | | ASHEVILLE | 296 | 529 | | VERMONT | | | |
| BISHOP | 404 | 665 | | ALEXANDRIA | 451 | 1247 | | CAPE HATTERAS R | 393 | 841 | | BURLINGTON | 189 | 275 | |
| BLUE CANYON | 188 | 307 | | BATON ROUGE | 507 | 1476 | | CHARLOTTE | 453 | 937 | | | | | |
| EUREKA U | 0 | 1 | | LAKE CHARLES | 538 | 1513 | | GREENSBORO | 456 | 990 | | VIRGINIA | | | |
| FRESNO | 573 | 1138 | | NEW ORLEANS | 520 | 1504 | | RALEIGH | 350 | 740 | | LYNCHBURG | 338 | 720 | |
| LONG BEACH | 121 | 196 | | SHREVEPORT | 528 | 1359 | | WILMINGTON | 482 | 1120 | | NORFOLK | 374 | 877 | |
| LOS ANGELES | 326 | 632 | | MAINE | | | | NORTH DAKOTA | | | | RICHMOND | 418 | 966 | |
| LOS ANGELES U | 157 | 272 | | CARIBOU | 164 | 213 | | FARGO | 199 | 313 | | ROANOKE | 351 | 747 | |
| MT SHASTA R | 30 | 58 | | PORTLAND | 172 | 231 | | WILLISTON | 244 | 370 | | WALLOPS ISLAND | 269 | 516 | |
| OAKLAND | 587 | 1189 | | MARYLAND | | | | OHIO | | | | WASHINGTON | | | |
| RED BLUFF | 374 | 725 | | BALTIMORE | 389 | 773 | | AKRON | 231 | 479 | | OLYMPIA | 44 | 73 | |
| SACRAMENTO | 372 | 591 | | MASSACHUSETTS | | | | CINCINNATI OBS | 320 | 735 | | QUILLAYUTE | 8 | 15 | |
| SAN DIEGO | 172 | 236 | | BLUE HILL OBS R | 227 | 331 | | CLEVELAND | 230 | 530 | | SEATTLE TACOMA | 58 | 119 | |
| SAN FRANCISCO | 32 | 69 | | WORCESTER | 197 | 283 | | COLUMBUS | 281 | 594 | | SPOKANE | 253 | 399 | |
| SAN FRANCISCO U | 17 | 42 | | MICHIGAN | | | | DAYTON | 322 | 703 | | STAMPEDE PASS R | 17 | 26 | |
| SANTA MARIA | 16 | 38 | | ALPENA | 158 | 230 | | MANSFIELD | 284 | 553 | | WALLA WALLA U | 388 | 665 | |
| STOCKTON | 430 | 851 | | DETROIT | 328 | 605 | | TOLEDO | 210 | 433 | | YAKIMA | 252 | 432 | |
| COLORADO | | | | DETROIT METRO | 249 | 477 | | YOUNGSTOWN | 182 | 379 | | WEST INDIES | | | |
| ALAMOSA | 45 | 63 | | FLINT | 191 | 352 | | OKLAHOMA | | | | SAN JUAN P.R. | 548 | 3096 | |
| COLORADO SPRINGS | 200 | 304 | | GRAND RAPIDS | 242 | 432 | | OKLAHOMA CITY | 536 | 1110 | | SWAN ISLAND | 511 | 3280 | |
| DENVER | 222 | 331 | | HOUGHTON LAKE | 167 | 262 | | TULSA | 555 | 1196 | | WEST VIRGINIA | | | |
| GRAND JUNCTION | 442 | 747 | | LANING | 193 | 367 | | OREGON | | | | BECKLEY | 165 | 322 | |
| PUEBLO | 481 | 854 | | MARQUETTE U | 176 | 248 | | ASTORIA | 0 | 7 | | CHARLESTON | 310 | 748 | |
| CONNECTICUT | | | | MUSKOGON | 220 | 403 | | BURNS U | 171 | 276 | | ELKINS | 123 | 205 | |
| BRIDGEPORT | 293 | 399 | | SAULT STE MARIE | 69 | 90 | | EUGENE | 173 | 270 | | HUNTINGTON | 275 | 627 | |
| HARTFORD | 322 | 517 | | MINNESOTA | | | | MEACHAM | 109 | 190 | | PARKERSBURG U | 305 | 705 | |
| DELAWARE | | | | DULUTH | 162 | 212 | | MEDFORD | 343 | 543 | | WISCONSIN | | | |
| WILMINGTON | 364 | 675 | | INTERNATIONAL FALLS | 185 | 274 | | PENDLETON | 313 | 525 | | GREEN BAY | 231 | 381 | |
| DIST. OF COLUMBIA | | | | MINNEAPOLIS | 323 | 607 | | PORTLAND | 150 | 264 | | LA CROSSE | 279 | 591 | |
| WASHINGTON DULLES | 288 | 524 | | ROCHESTER | 202 | 410 | | SALEM | 106 | 190 | | MADISON | 210 | 394 | |
| WASHINGTON NATIONAL | 449 | 936 | | ST CLOUD | 261 | 444 | | SEXTON SUMMIT R | 98 | 218 | | MILWAUKEE | 270 | 422 | |
| FLORIDA | | | | MISSISSIPPI | | | | PACIFIC AREA | | | | WYOMING | | | |
| APALACHICOLA U | 542 | 1578 | | JACKSON | 496 | 1386 | | GUAM TAGUAC R | 437 | 2956 | | CASPER | 200 | 277 | |
| DAYTONA BEACH | 557 | 1762 | | MERIDIAN | 489 | 1271 | | JOHNSTON | 488 | 3004 | | CHEYENNE | 149 | 203 | |
| FORT MYERS | 539 | 1784 | | MISSOURI | | | | KOROR R | 537 | 3681 | | LANDER | 196 | 278 | |
| JACKSONVILLE | 567 | 1645 | | COLUMBIA REGIONAL | 372 | 749 | | KWAJALEIN | 534 | 3825 | | SHERIDAN | 134 | 190 | |
| KEY WEST | 589 | 2438 | | KANSAS CITY | 493 | 1118 | | MAJURO | 507 | 3551 | | | | | |
| LAKELAND U | 523 | 1700 | | ST JOSEPH | 476 | 1097 | | PAGO PAGO | 458 | 3356 | | | | | |
| MIAMI | 558 | 2330 | | ST LOUIS | 410 | 906 | | PONAPE R | 472 | 3486 | | | | | |
| ORLANDO | 586 | 1987 | | SPRINGFIELD | 337 | 712 | | TRUK MOEN ISLAND | 531 | 3640 | | | | | |
| PENSACOLA | 566 | 1621 | | MONTANA | | | | WAKE | 540 | 3498 | | | | | |
| TALLAHASSEE | 490 | 1391 | | BILLINGS | 261 | 386 | | YAP R | 528 | 3556 | | | | | |
| TAMPA | 557 | 1735 | | GLASGOW | 250 | 381 | | PENNSYLVANIA | | | | | | | |
| WEST PALM BEACH | 551 | 1984 | | GREAT FALLS | 214 | 362 | | ALLENTOWN | 278 | 440 | | | | | |
| GEORGIA | | | | HAYRE | 193 | 307 | | ERIE | 145 | 262 | | | | | |
| ATHENS | 474 | 1080 | | HELENA | 130 | 206 | | HARRISBURG | 353 | 653 | | | | | |
| ATLANTA | 430 | 980 | | KALISPELL | 88 | 145 | | PHILADELPHIA | 376 | 683 | | | | | |
| AUGUSTA | 478 | 1127 | | MILES CITY | 367 | 559 | | PITTSBURGH | 215 | 469 | | | | | |
| COLUMBUS | 520 | 1323 | | MISSOULA | 138 | 226 | | SCRANTON | 189 | 320 | | | | | |
| MACON | 560 | 1354 | | NEBRASKA | | | | WILLIAMSPORT | 262 | 437 | | | | | |
| ROME | 438 | 942 | | GRAND ISLAND | 426 | 845 | | RHODE ISLAND | | | | | | | |
| SAVANNAH | 521 | 1379 | | LINCOLN U | 445 | 964 | | BLOCK ISLAND | 186 | 198 | | | | | |
| | | | | NORFOLK | 364 | 724 | | PROVIDENCE | 289 | 388 | | | | | |
| | | | | | | | | SOUTH CAROLINA | | | | | | | |
| | | | | | | | | CHARLESTON | 552 | 1350 | | | | | |
| | | | | | | | | CHARLESTON U | 558 | 1420 | | | | | |
| | | | | | | | | COLUMBIA | 576 | 1434 | | | | | |
| | | | | | | | | GRNVILLE SPRTNBRG | 454 | 980 | | | | | |

Data from airport unless otherwise specified.
U indicates Urban, R indicates Rural, sites.

TROPICAL STORM BECKY—July 18-23, 1970

Tropical storm Becky began quite humbly as a weak tropical disturbance which formed about 650 mi. east of the Lesser Antilles on the 14th. The disturbance moved westward into the Caribbean, causing some shower activity over Cuba and the Florida Straits, and it had become an organized depression by 7 p.m. (EST) on the 18th. Once reaching the Gulf of Mexico, the depression began to intensify rapidly, becoming a poorly organized tropical storm by 7 a.m. on the 20th. At 7 p.m. on the 20th, the TICONDEROGA was hit by 52 m.p.h. southeasterly winds near 26° N., 86°W. At that hour, Becky's central pressure reached a minimum of 1003 mb. Becky moved northward and continued to intensify, buffeting the SOCONY VACUUM with 63 m.p.h. winds at 5:30 a.m. on the 21st, and at 9:30 a.m. an Air Force reconnaissance plane reported that she had attained near-hurricane force about 220 mi. south of Pensacola, Fla.

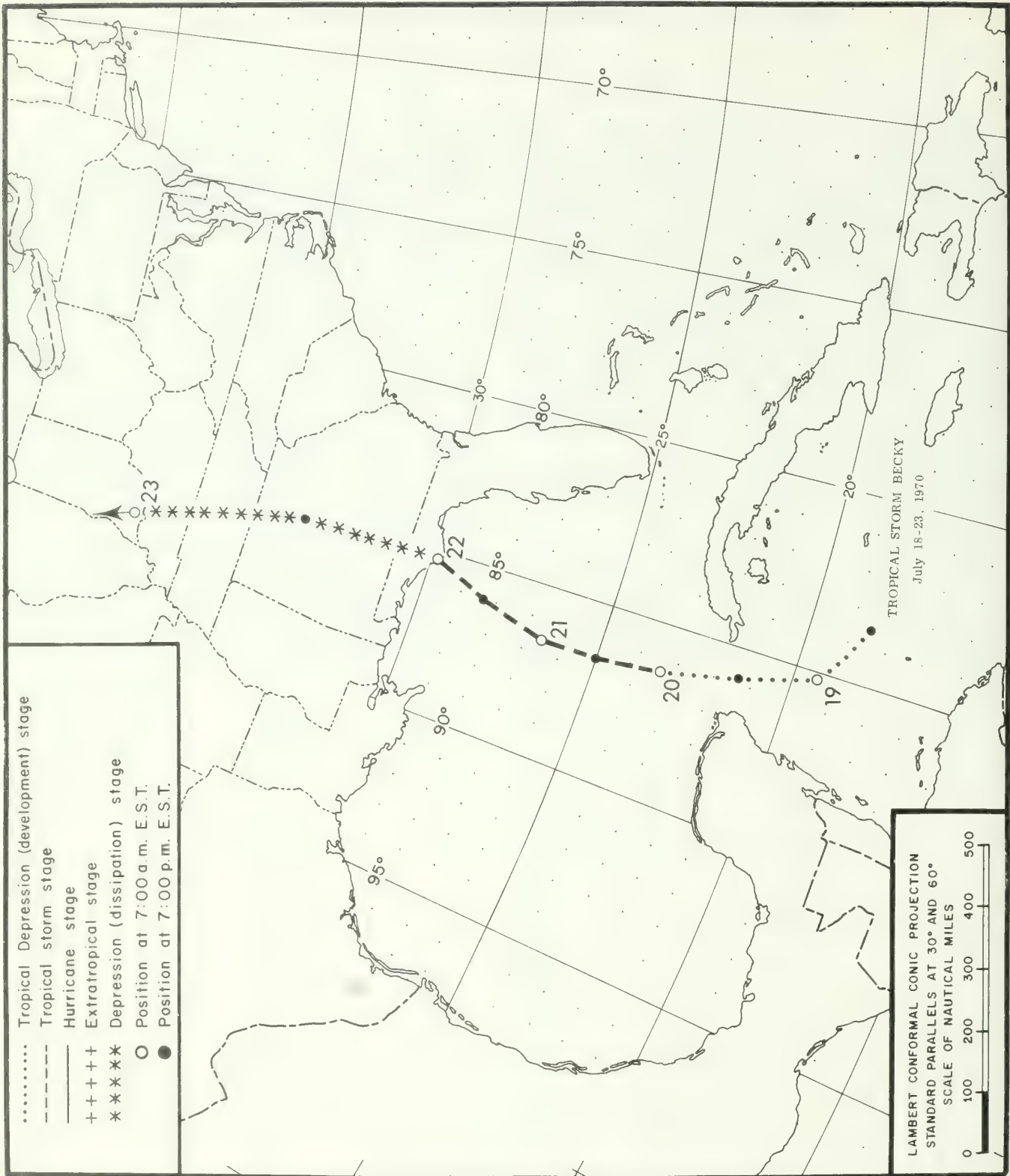
Becky continued northward toward the Florida Panhandle with just below-hurricane force winds near the center. The storm remained poorly organized, however, and by 3 a.m. on the 22d, she had begun to weaken and turn slightly toward the northeast.

Tropical storm Becky moved inland near Port St. Joe after daybreak on the 22d, bringing locally heavy rain and squalls to the Florida Panhandle. Rainfall amounts ranged from 9.88 in. at Crawfordville and 8.18 in. at Tallahassee to only 1 in. at Apalachicola. Sustained winds of 28 m.p.h. with gusts to 44 m.p.h. were reported at Tallahassee, and Apalachicola reported a

32 m.p.h. sustained wind with gusts to 39 m.p.h. A tornado spawned by Becky destroyed three houses in Panacea, Fla., and a high tide of 6 feet (3 feet above normal) was recorded at Panacea. Becky rapidly became extratropical, but the remnants of the storm continued northward bringing rain to the Southeastern and Middle Atlantic States.

The storm moved through Georgia, Tennessee, Kentucky, and Indiana, and by the evening of the 23rd, she had completely dissipated over Michigan, leaving behind a great deal of moisture--3.34 in. of rain fell in Augusta, Ga., alone. A tornado demolished two houses in northern Emanuel County, Ga., killing one person. However, this tornado occurred on a weakening cold front some distance from Becky and cannot be directly attributed to the tropical storm. Haroldson County, Ga., had a storm total of 6.50 in., and most of the northern part of the state, which had been extremely dry for weeks, received over 2 in. of much needed rain. Columbia, S. C., had 2.72 in. of beneficial rain and no adverse effects from the storm. Elsewhere, the rainfall was widespread south of the Great Lakes and east of the Mississippi River.

Becky caused a total of \$500,000 worth of damage in Florida due mainly to local flooding. Most of the damage was confined to Leon and Wakulla counties, with the greatest concentration in the vicinity of Tallahassee. Florida reported no deaths and only two injuries as a result of Becky. The damage totals were minimal in all other areas.



STORM SUMMARY

JULY 1970

| STATE | TORNADOES | | | | | HAILSTORMS | | | | WINDSTORMS | | | | LIGHTNING | | | | * HEAVY SNOWSTORMS
AND BLIZZARDS | | | | # ICE STORMS | | | | Ø ALL OTHER | | | |
|--------------------|-----------|------|--------|----------|--------|------------|----------|--------|-------|------------|----------|--------|-------|-----------|----------|--------|-------|-------------------------------------|----------|--------|-------|--------------|----------|--------|-------|-------------|----------|--------|-------|
| | NUMBER | DAYS | DEATHS | INJURIES | DAMAGE | DEATHS | INJURIES | DAMAGE | | DEATHS | INJURIES | DAMAGE | | DEATHS | INJURIES | DAMAGE | | DEATHS | INJURIES | DAMAGE | | DEATHS | INJURIES | DAMAGE | | DEATHS | INJURIES | DAMAGE | |
| | | | | | | | | PROP. | CROPS | | | PROP. | CROPS | | | PROP. | CROPS | | | PROP. | CROPS | | | PROP. | CROPS | | | PROP. | CROPS |
| Alabama | 1 | 1 | 0 | 0 | 2 | 0 | 0 | 3 | 2 | 0 | 0 | 5 | 3 | 0 | 0 | 5 | 0 | | | | | | | | | | | | |
| Alaska * | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Arizona | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 1 | 5 | 0 | 0 | 1 | 0 | 0 | | | | | | | | | 0 | 0 | 5 | 0 |
| Arkansas | | | | | | 0 | 0 | 3 | 4 | 0 | 0 | 4 | 0 | 0 | 0 | 4 | 0 | | | | | | | | | | | | |
| California * | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Colorado | 2 | 2 | 0 | 0 | 3 | 0 | 0 | 3 | 5 | 0 | 0 | 2 | 0 | 0 | 1 | 2 | 0 | | | | | | | | | 1 | 0 | 5 | 0 |
| Connecticut | | | | | | | | | | 0 | 0 | 5 | 0 | | | | | | | | | | | | | | | | |
| Delaware | | | | | | | | | | 0 | 3 | 5 | 0 | 0 | 0 | 4 | 0 | | | | | | | | | | | | |
| Florida | 14 | 8 | 0 | 0 | 5 | | | | | 0 | 0 | 4 | 3 | 4 | 11 | 5 | 1 | | | | | | | | | 0 | 0 | 5 | 5 |
| Georgia | 3 | 2 | 1 | 3 | 4 | 0 | 0 | 0 | 4 | 0 | 4 | 5 | 4 | 4 | 5 | 4 | 0 | | | | | | | | | | | | |
| Hawaii * | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Idaho | | | | | | 0 | 0 | 4 | 7 | 0 | 0 | 3 | 2 | 0 | 1 | 3 | ? | | | | | | | | | | | | |
| Illinois | 2 | 2 | 0 | 1 | 4 | 0 | 0 | 2 | 2 | 0 | 0 | 5 | 0 | | | | | | | | | | | | | | | | |
| Indiana | | | | | | 0 | 0 | 5 | 4 | 0 | 0 | 5 | 4 | 0 | 3 | 5 | 3 | | | | | | | | | | | | |
| Iowa | 5 | 3 | 0 | 0 | 5 | 0 | 0 | 5 | 5 | 2 | 24 | 7 | 7 | 0 | 1 | 5 | 0 | | | | | | | | | | | | |
| Kansas | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 3 | 4 | 0 | 1 | 5 | 4 | 0 | 1 | 4 | 0 | | | | | | | | | | | | |
| Kentucky | | | | | | 0 | 0 | 2 | 2 | 0 | 3 | 5 | 0 | 1 | 2 | 5 | 0 | | | | | | | | | | | | |
| Louisiana | 2 | 2 | 0 | 0 | 3 | 0 | 0 | 2 | 2 | 4 | 2 | 6 | 2 | 3 | 1 | 2 | ? | | | | | | | | | | | | |
| Maine | | | | | | 0 | 0 | 2 | 4 | 0 | 0 | 4 | 2 | 0 | 0 | 4 | 0 | | | | | | | | | | | | |
| Maryland | | | | | | 0 | 0 | 0 | 3 | 0 | 3 | 5 | 4 | 0 | 0 | 5 | 0 | | | | | | | | | 0 | 0 | 5 | 3 |
| Massachusetts | | | | | | 0 | 0 | 0 | 2 | 0 | 0 | 4 | 0 | 1 | 9 | 5 | 0 | | | | | | | | | 0 | 0 | 5 | 0 |
| Michigan | | | | | | 0 | 0 | 0 | 4 | 0 | 0 | 5 | 0 | 3 | 4 | 5 | 0 | | | | | | | | | 0 | 0 | 0 | 6 |
| Minnesota | 6 | 3 | 0 | 9 | 6 | 0 | 0 | 2 | 6 | 0 | 0 | 3 | 5 | 0 | 0 | 5 | 0 | | | | | | | | | | | | |
| Mississippi | 1 | 1 | 0 | 0 | 2 | 0 | 0 | 2 | 0 | 2 | 2-3 | 5 | 2 | | | | | | | | | | | | | 0 | 0 | ? | 0 |
| Missouri | 2 | 2 | 0 | 7 | 5 | | | | | 0 | 1 | 4 | 0 | | | | | | | | | | | | | | | | |
| Montana | | | | | | 0 | 0 | 2 | ? | 0 | 0 | 2 | ? | 0 | 0 | 4 | 0 | | | | | | | | | 0 | 0 | 0 | 5 |
| Nebraska | 2 | 2 | 0 | 0 | 4 | 0 | 0 | 5 | 5 | 0 | 2 | 4 | 0 | 0 | 2 | 4 | 0 | | | | | | | | | 0 | 0 | 0 | |
| Nevada | | | | | | 0 | 0 | 2 | 2 | 0 | 0 | 2 | ? | | | | | | | | | | | | | 0 | 0 | 5 | 3 |
| New Hampshire | 1 | 1 | 0 | 0 | 4 | 0 | 0 | 2 | 5 | 0 | 0 | 4 | 0 | 0 | 0 | 5 | 0 | | | | | | | | | 0 | 0 | 3 | 0 |
| New Jersey | 1 | 1 | 0 | 0 | 4 | | | | | | | | | 4 | 16 | 5 | | | | | | | | | | | | | |
| New Mexico | 1 | 1 | 0 | 0 | 0 | | | | | | | | | | | | | | | | | | | | | 0 | 0 | 5 | 0 |
| New York | 1 | 1 | 0 | 0 | 4 | | | | | | 1 | 5 | | | 10 | 5 | | | | | | | | | | 0 | 0 | 7 | 5 |
| North Carolina | | | | | | 0 | 0 | 4 | 6 | 1 | 2 | 5 | 4 | 1 | 2 | 6 | 0 | | | | | | | | | 0 | 0 | 5 | 4 |
| North Dakota | 2 | 2 | 0 | 0 | 4 | 0 | 0 | 3 | 4 | 0 | 0 | 4 | 0 | 0 | 0 | 2 | 0 | | | | | | | | | | | | |
| Ohio | 2 | 2 | 0 | 2 | 5 | | | ? | C | 0 | 1 | 5 | | 1 | 4 | 5 | | | | | | | | | | | 5 | | C |
| Oklahoma | 2 | 2 | 0 | 0 | 3 | 0 | 0 | 4 | ? | 0 | 0 | 5 | ? | 1 | 2 | 5 | 0 | | | | | | | | | | | | |
| Oregon | | | | | | 0 | 0 | 2 | 4 | 0 | 1 | 5 | 0 | 0 | 0 | ? | ? | | | | | | | | | 0 | 0 | 5 | 4 |
| Pacific Area * | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pennsylvania | 3 | 2 | 0 | 0 | 5 | 0 | 0 | 0 | 4 | 0 | 5 | 5 | 4 | 1 | 3 | 5 | 5 | | | | | | | | | 3 | 2 | 5 | 5 |
| Puerto Rico | | | | | | | | | | 0 | 0 | 4 | C | | | | | | | | | | | | | | | | |
| Rhode Island * | | | | | | 0 | 0 | 4 | 5 | 0 | 3 | 5 | 2 | 1 | 3 | 4 | 0 | | | | | | | | | | | | |
| South Carolina | | | | | | 0 | 0 | 7 | 7 | | 1 | 5 | 0 | 0 | 0 | 4 | 0 | | | | | | | | | | | | |
| South Dakota | 6 | 4 | 1 | 1 | 4 | 0 | 0 | 4 | C | 5 | 2 | 5 | 3 | 1 | 2 | 5 | 0 | | | | | | | | | 0 | 0 | 4 | C |
| Tennessee | 1 | 1 | 0 | 1 | 4 | 0 | 0 | 4 | C | 0 | 2 | 4 | 0 | 0 | 0 | 4 | 0 | | | | | | | | | | | | |
| Texas | 5 | 3 | 1 | 5 | 5 | | | | | | | | | | | | | | | | | | | | | | | | |
| Utah | | | | | | | | | | | | | | | | | | | | | | | | | | 0 | 0 | 5 | 2 |
| Vermont | | | | | | 0 | 0 | 0 | 4 | 0 | 0 | 4 | 2 | 0 | 0 | 4 | 0 | | | | | | | | | | | | |
| U. S. Virgin Is. * | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Virginia | 2 | 2 | 0 | 0 | 3 | 0 | 0 | 0 | 5 | 0 | 1 | 4 | ? | 0 | 0 | 4 | 0 | | | | | | | | | 0 | 0 | 3 | 0 |
| Washington | | | | | | | | 4 | 5 | | | 3 | 3 | | | | | | | | | | | | | | | | |
| West Virginia | | | | | | | | | | 0 | 0 | 3 | 0 | 4 | 2 | 4 | 0 | | | | | | | | | 0 | 0 | 4 | 0 |
| Wisconsin | 8 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 1 | 0 | 6 | 0 | 1 | 0 | 5 | 0 | | | | | | | | | | | | |
| Wyoming * | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

* Includes crop damage

C Crop damage

* No occurrence of storms or unusual weather phenomena reported.

† Includes heavy sleet storm

Freezing drizzle and freezing rain, commonly known as glaze

Ø For breakdown of "All Others", and for detailed listing of other storms, see the Environmental Data Service, NOAA, monthly publication STORM DATA.

* Storm damages are placed in categories varying from 1 to 9 as follows:

1 Less than \$50

2 \$50 to \$500

3 \$500 to \$5,000

4 \$5,000 to \$50,000

5 \$50,000 to \$500,000

6 \$500,000 to \$5,000,000

7 \$5,000,000 to \$50,000,000

8 \$50,000,000 to \$500,000,000

9 \$500,000,000 to \$5,000,000,000

GENERAL SUMMARY OF RIVER AND FLOOD CONDITIONS

JULY 1970

Elmer R. Nelson, Office of Hydrology

The most damaging floods during July were the flash flood variety resulting from severe thunderstorm activity. These floods occurred mostly on creeks and small streams in the Northeastern and Western States. The largest loss of life reported was in a flooded arroyo near Tucson, Ariz., where four people were drowned.

The Geological Survey reported that flows were below normal in large parts of the Southeast and the mid-continent and western parts of Oregon and Washington. Minimum monthly or daily mean discharges were lowest of record for July on some streams in South Carolina, Mississippi, Louisiana and Washington.

HUDSON BAY DRAINAGE

Red River of the North Basin.--Locally heavy rains during June prolonged the flooding along the Souris River in North Dakota into July. The flooding continued near Bantry, N. Dak., from May 6 to July 3, a period of 59 days and near Westhope, N. Dak., from May 3 to July 9, a period of 68 days.

ATLANTIC SLOPE DRAINAGE

Extremely heavy rainfall in the vicinity of Deposit, N. Y., on July 3 caused flooding along small creeks and streams on the West Branch of the Delaware River. Bone Creek, which is about 1 1/2 miles long and flows south-southeastward across the western portion of the village of Deposit, rose to dangerous heights. Debris in the creek restricted runoff and water overflowed Front Street with some basement flooding. Heavy damage was also reported in the lowlands along Oquago Creek in the vicinity of Route 17 leading west from Deposit. A Civil Defense report indicates flood damage at \$500,000. This area was designated as a disaster area.

Reservoir storage continued its seasonal decline during July. Storage in New Jersey's thirteen principal water-supply reservoirs decreased almost 10 billion gallons or approximately 14% of available supply. New York City's reservoirs on the upper Delaware recorded a decrease of almost 26 billion gallons or about 10% of usable storage.

Flash flooding occurred on Yellow Breeches Creek at Mt. Holly Springs, Pa., during July. Damage was estimated at \$500,000.

Flash flooding occurred at Covington, Va., and vicinity on the 9th. No flooding occurred along the main stem of the Jackson River at Covington.

Minor flooding occurred along the Lumber River at Lumberton, N. C., during the last 3 days of the month. Flooding continued into August. Only swampland and a few low approach roads were flooded in the Lumberton area. No losses were reported.

MISSISSIPPI SYSTEM

Upper Mississippi Basin.--The lower Illinois River continued in flood from the middle of April into July. Since the river had been in flood for several months prior to July, little additional flood damage resulted.

Ohio Basin.--Heavy thundershowers during the afternoon of the 18th caused surface flooding at Alliance, Ohio. More than 3 inches of rain occurred over a small part of the southwest portion of the city. The area is saucer-shaped with wide streets and storm sewers are the only drainage. Water accumulated to a depth of 7 ft. on one of the streets. Eighty basements were flooded. Damage estimates vary from \$100,000 to \$200,000.

Locally heavy rain during the night of June 30 and the morning of July 1 caused flash flooding on Meadow Creek at Leslie and Quinwood, W. Va. The creek rose 5 or 6 ft. within minutes following the heavy rain. The highest water occurred at Leslie, W. Va., about 2 a.m. on July 1. The creek, normally about 7 ft. wide, was about 100 yards wide during the height of the flooding. The water rose up to the first floor ceiling level in some homes and about 2 ft. deep in many houses. Most of the damage occurred in the small towns of Leslie, Marframe and Quinwood, W. Va. Police estimated at least 50 homes, a post office, a store, more than 20 cars and several trucks and other property was under water and heavily damaged in Leslie.

White Basin.--The Cache River at Patterson, Ark., remained at flood stage level from June 29 to July 2. This rise was due to 1 to 2 inches of rain on June 24-25. No overflow or flood damage resulted.

Red Basin.--Heavy thundershowers during the night of the 11-12th caused rainfall amounts of 2 to 3 inches over portions of east-central Oklahoma, with local amounts in excess of 4 1/2 inches. Brief flooding of creeks and small streams occurred.

WEST GULF OF MEXICO DRAINAGE

Minor flooding occurred on the Rio Grande River near the northwest corner of the Big Bend National Park on June 30 to July 1.

GULF OF CALIFORNIA DRAINAGE

Colorado Basin.--Flash flooding occurred in Kingman, Ariz., area on July 5. Some road washouts were reported.

Heavy showers on the 6th and severe thunderstorms on the 19th and 20th in the Tucson, Ariz., area caused widespread street flooding with damage to flooded vehicles. Four people were drowned in a flooded arroyo on the 19th.

Flash flooding occurred on the 7th under the Mogollon Rim on Tonto Creek and East Verde Rivers in southwestern New Mexico.

GREAT BASIN

Thunderstorm activity caused some local flooding in the Great Basin during June.

High water on Thompson Creek on the 4th caused minor flood damage at Austin, Utah.

Flash flooding occurred on Red Creek near Fruitland, Utah, on July 4-5. A dirt road was washed out stranding campers until the road could be repaired.

A flash flood, originating in the headwaters of Monroe Creek, caused light to moderate damage at Monroe, Utah, on the 9th. An irrigation diversion, the water line for the town of Monroe, a road and a water supply flume for a local power plant were washed out.

Minor flooding occurred in Eli and Indian Hollows, tributaries to Ferron Creek near Ferron, Utah, on the 22d. Some damage occurred to alfalfa fields and fences in the Indian Hollow area.

PACIFIC SLOPE DRAINAGE

Columbia Basin.--Henrys Fork near Rexburg, Idaho, continued in flood from June 25 to July 1. The crest on June 30 was 0.3 foot above flood stage.

Flash flooding occurred at Spray, Oreg., on the evening of the 4th. A bridge was washed out following 1.5 inches of rain in 30 minutes. Damage to roads, fields and property totalled about \$250,000.

GENERAL SUMMARY OF RIVER AND FLOOD CONDITIONS-Continued

JULY 1970

The lower Columbia River at Vancouver, Wash., ft. at the end of the month.
receded from a stage of 7.5 ft. on July 1 to about 4.0

e
e

FLOOD STAGE DATA

(All dates in July unless otherwise specified)

JULY 1970

| River and station | Flood stage | Above flood stages
-dates | | Crest * | |
|------------------------------|-------------|------------------------------|-------|---------------|--------------------|
| | | From- | To- | Stage | Date |
| HUDSON BAY DRAINAGE | Ft. | | | Ft. | |
| Red River of the North Basin | | | | | |
| is
lantly (8E), N. Dak. | T 11 | May 6 | 3 | 13.2 | May 22 |
| esthope (7SNE), N. Dak. | T 10 | May 3 | 9 | 13.4 | June 6 |
| ATLANTIC SLOPE DRAINAGE | | | | | |
| er:
umberton, N. C. | 9 | 29 | Aug 6 | # 9.9 | 31 |
| MISSISSIPPI SYSTEM | | | | | |
| Upper Mississippi Basin | | | | | |
| nois:
ayana, Ill. | 14 | Apr 10 | 6 | 22.15
19.2 | May 21
June 6-7 |
| ardstown, Ill. | 14 | Apr 18 | 7 | 23.7
21.1 | May 21
June 5 |

| River and station | Flood stage | Above flood stages
-dates | | Crest * | |
|--------------------------------------|-------------|------------------------------|-----|---------|-----------|
| | | From- | To- | Stage | Date |
| MISSISSIPPI SYSTEM (Continued) | Ft. | | | Ft. | |
| White Basin | | | | | |
| Cache:
Patterson, Ark. | 7 | June 29 | 2 | 7.0 | June 29-2 |
| PACIFIC SLOPE DRAINAGE | | | | | |
| Columbia Basin | | | | | |
| Henrys Fork:
Rexburg (nr.), Idaho | 9 | June 25 | 1 | 9.3 | June 30 |
| * Provisional | | | | | |
| # Highest Stage Observed | | | | | |
| T Tentative | | | | | |

Average monthly values

JULY 1970

See reference table at end of table

Average monthly values

Jul. 1977

| EMPALME, MEXICO
1012 MB | | | | | | | | | | FAIRBANKS, ALASKA
993 MB | | | | | | | | | | FLINT, MICH.
987 MB | | | | | | | | | | FORT WORTH, TEXAS
995 MB | | | | | | | | | | GLASGOW MONT.
933 MB | | | | | | | | | |
|----------------------------|----|-------|-------|--|----|------|-------|-------|-------|-----------------------------|------|-----|-------|--------|-------|-------|------|------|-------|------------------------|-------|-------|----|------|-----|-------|-------|-------|----|-----------------------------|--|--|--|--|--|--|--|--|--|-------------------------|--|--|--|--|--|--|--|--|--|
| SURFACE | 31 | 12 | 26.6 | 23.5 | 10 | 1.0 | 31 | 135 | 13.6 | 8.7 | 34 | .9 | 31 | 236 | 17.5 | 16.1 | 23 | 1.9 | 31 | 180 | 23.5 | 18.9 | 19 | 1.8 | 31 | 696 | 15.4 | 10.4 | 11 | 1.7 | | | | | | | | | | | | | | | | | | | |
| 1960 | 31 | 115 | 27.2 | 22.6 <td>11</td> <td>1.5</td> <td>31</td> <td>78</td> <td></td> <td></td> <td></td> <td></td> <td>31</td> <td>128</td> <td></td> <td></td> <td></td> <td>31</td> <td>133</td> <td></td> <td></td> <td></td> <td></td> <td>31</td> <td>104</td> <td></td> <td></td> <td></td> <td></td> <td></td> | 11 | 1.5 | 31 | 78 | | | | | 31 | 128 | | | | 31 | 133 | | | | | 31 | 104 | | | | | | | | | | | | | | | | | | | | | | | | |
| 950 | 31 | 569 | 25.9 | 18.4 | 13 | 2.6 | 31 | 511 | 12.7 | 5.7 | 24 | 1.8 | 31 | 568 | 18.8 | 13.8 | 27 | 4.1 | 31 | 583 | 23.4 | 17.3 | 21 | 7.3 | 31 | 1008 | | | | | | | | | | | | | | | | | | | | | | | |
| 900 | 31 | 1006 | | | | 2.6 | 31 | 134 | 10.0 | 3.4 | 23 | 7.3 | 31 | 103 | 16.7 | 11.1 | 23 | 5.0 | 31 | 673 | 19.3 | 13.9 | 21 | 6.6 | 31 | 508 | 19.5 | 8.4 | 24 | 1.6 | | | | | | | | | | | | | | | | | | | |
| 850 | 31 | 1544 | 21.3 | 12.4 | 10 | 2.5 | 31 | 1436 | 9.5 | .9 | 23 | 3.6 | 31 | 1517 | 10.7 | 6.9 | 28 | 5.3 | 31 | 1550 | 19.0 | 10.5 | 20 | 3.7 | 31 | 1499 | 18.0 | 4.0 | 28 | 3.9 | | | | | | | | | | | | | | | | | | | |
| 800 | 31 | 2057 | 18.1 | 10.2 | 09 | 2.7 | 31 | 1931 | 3.0 | -1.1 | 21 | 3.4 | 31 | 2026 | 16.7 | -2.2 | 24 | 5.3 | 31 | 2009 | 15.9 | 6.2 | 22 | 1.8 | 31 | 2016 | 14.6 | .9 | 29 | 5.4 | | | | | | | | | | | | | | | | | | | |
| 750 | 31 | 2617 | 14.6 | 7.0 | 09 | 3.9 | 31 | 2450 | -6.6 | -3.5 | 21 | 3.5 | 31 | 2562 | 7.7 | -4.2 | 28 | 6.3 | 31 | 2614 | 12.6 | 2.3 | 19 | 1.3 | 31 | 2457 | 10.6 | -1.8 | 29 | 7.5 | | | | | | | | | | | | | | | | | | | |
| 700 | 31 | 3197 | 10.8 | 3.0 | 11 | 4.3 | 31 | 2998 | -6.1 | -6.0 | 21 | 2.8 | 31 | 3128 | 4.6 | -6.8 | 28 | 6.6 | 31 | 3189 | 8.9 | -5.3 | 14 | 1.3 | 31 | 3127 | 6.6 | -4.8 | 24 | 9.3 | | | | | | | | | | | | | | | | | | | |
| 650 | 31 | 3813 | 6.6 | -1.12 | | 4.6 | 31 | 3579 | -7.2 | -12.1 | 20 | 2.7 | 31 | 3729 | 1.3 | -9.2 | 28 | 6.3 | 31 | 3799 | 5.1 | -4.9 | 03 | 1.8 | 31 | 3731 | 2.6 | -1.8 | 24 | 15.8 | | | | | | | | | | | | | | | | | | | |
| 600 | 31 | 4467 | 2.1 | -3.7 | 12 | 4.9 | 31 | 4199 | -10.9 | -16.2 | 19 | 3.2 | 31 | 4382 | -2.2 | -13.4 | 28 | 7.4 | 31 | 4501 | 1.1 | -10.1 | 04 | 1.5 | 31 | 4467 | 0.1 | -13.6 | 28 | 17.6 | | | | | | | | | | | | | | | | | | | |
| 550 | 31 | 5104 | | | | 5.3 | 31 | 5057 | -2.1 | -7.1 | 19 | 3.3 | 31 | 5157 | -1.8 | -10.8 | 28 | 7.8 | 31 | 5143 | -3.0 | -16.6 | 04 | 2.4 | 31 | 5082 | -5.7 | -18.3 | 27 | 12.7 | | | | | | | | | | | | | | | | | | | |
| 500 | 24 | 5914 | -6.9 | -15.2 | 12 | -2.3 | 31 | 5578 | -19.5 | -26.2 | 19 | 3.9 | 31 | 5795 | -10.7 | -23.4 | 28 | 8.4 | 31 | 5892 | -7.2 | -22.6 | 03 | 3.0 | 31 | 5802 | -10.5 | -23.4 | 27 | 12.7 | | | | | | | | | | | | | | | | | | | |
| 450 | 24 | 6729 | -11.8 | -21.0 | 12 | 5.2 | 31 | 6353 | -24.6 | -31.8 | 18 | 4.2 | 31 | 6597 | -15.9 | -29.5 | 28 | 8.9 | 31 | 6705 | -12.2 | -25.6 | 03 | 4.7 | 31 | 6604 | -16.1 | -30.9 | 27 | 12.5 | | | | | | | | | | | | | | | | | | | |
| 400 | 24 | 7622 | -17.4 | -27.5 | 11 | 5.1 | 31 | 7200 | -30.9 | -37.9 | 19 | 4.4 | 31 | 7475 | -1.9 | -34.8 | 28 | 9.7 | 31 | 7595 | -18.3 | -34.7 | 02 | 7.0 | 31 | 7480 | -22.6 | -35.2 | 27 | 14.0 | | | | | | | | | | | | | | | | | | | |
| 350 | 24 | 8611 | -24.6 | -33.7 | 12 | 5.7 | 31 | 8136 | -38.1 | -46.7 | 18 | 4.4 | 31 | 8447 | -28.9 | -40.6 | 29 | 11.4 | 31 | 8581 | -25.3 | -39.4 | 07 | 8.9 | 31 | 8449 | -29.7 | -42.2 | 27 | 14.7 | | | | | | | | | | | | | | | | | | | |
| 300 | 24 | 9713 | -32.7 | -42.3 | 12 | 6.9 | 31 | 9716 | -46.7 | | 19 | 4.6 | 31 | 9529 | -36.7 | -46.9 | 29 | 12.4 | 31 | 9673 | -34.2 | -46.4 | 01 | 13.1 | 31 | 9556 | -38.2 | -49.5 | 27 | 15.4 | | | | | | | | | | | | | | | | | | | |
| 250 | 24 | 10958 | -43.0 | -52.0 | 12 | 8.1 | 31 | 10961 | -52.8 | | 19 | 4.8 | 31 | 10760 | -46.7 | -56.9 | 29 | 12.4 | 31 | 10934 | -43.2 | | 01 | 13.1 | 31 | 10756 | -46.7 | | 27 | 15.4 | | | | | | | | | | | | | | | | | | | |
| 200 | 24 | 12435 | -54.7 | | 11 | 5.8 | 31 | 11417 | -48.7 | | 19 | 3.3 | 31 | 12427 | -53.8 | | 28 | 15.9 | 31 | 124401 | -54.1 | | 01 | 14.3 | 31 | 12207 | -54.5 | | 27 | 14.4 | | | | | | | | | | | | | | | | | | | |
| 175 | 24 | 13275 | -60.8 | | 12 | 6.4 | 31 | 12699 | -67.0 | | 19 | 3.1 | 31 | 13479 | -56.7 | | 29 | 14.6 | 31 | 13247 | -59.3 | | 02 | 13.7 | 31 | 13058 | -55.2 | | 27 | 14.2 | | | | | | | | | | | | | | | | | | | |
| 150 | 24 | 14219 | -67.4 | | 11 | 4.8 | 31 | 13723 | -66.2 | | 18 | 3.0 | 31 | 14053 | -58.6 | | 29 | 11.7 | 31 | 14200 | -64.5 | | 02 | 11.2 | 31 | 14041 | -55.8 | | 27 | 14.1 | | | | | | | | | | | | | | | | | | | |
| 125 | 24 | 15305 | -71.7 | | 10 | 4.2 | 30 | 14932 | -66.1 | | 16 | 2.5 | 31 | 15193 | -60.3 | | 30 | 9.4 | 31 | 15303 | -68.6 | | 04 | 9.5 | 30 | 15198 | -57.1 | | 27 | 13.0 | | | | | | | | | | | | | | | | | | | |
| 100 | 24 | 16619 | -71.3 | | 08 | 6.7 | 30 | 16147 | -65.7 | | 14 | 2.7 | 31 | 16586 | -59.8 | | 30 | 5.4 | 31 | 16641 | -67.6 | | 08 | 8.0 | 30 | 16608 | -57.3 | | 27 | 12.7 | | | | | | | | | | | | | | | | | | | |
| 80 | 24 | 17947 | -88.0 | | 08 | 10.1 | 30 | 17903 | -65.8 | | 10 | 3.8 | 31 | 17784 | -55.7 | | 35 | 9.9 | 31 | 17993 | -64.5 | | 08 | 7.9 | 31 | 18020 | -56.6 | | 26 | 12.4 | | | | | | | | | | | | | | | | | | | |
| 70 | 24 | 18755 | -95.0 | | 09 | 9.0 | 31 | 18783 | -65.7 | | 11 | 3.5 | 31 | 18675 | -63.7 | | 32 | 2.7 | 31 | 18813 | -62.8 | | 08 | 8.5 | 29 | 18871 | -55.4 | | 24 | 14.4 | | | | | | | | | | | | | | | | | | | |
| 60 | 24 | 19701 | -62.6 | | 09 | 14.2 | 30 | 19621 | -65.1 | | 11 | 3.5 | 31 | 19780A | -55.5 | | 35 | 3.7 | 31 | 19769 | -60.6 | | 28 | 10.7 | 29 | 19458 | -53.9 | | 24 | 14.4 | | | | | | | | | | | | | | | | | | | |
| 50 | 24 | 20835 | -59.3 | | 09 | 14.7 | 28 | 21039 | -44.2 | | 10 | 4.7 | 30 | 20793 | -53.2 | | 07 | 5.5 | 30 | 20914 | -57.0 | | 09 | 11.9 | 29 | 21034 | -52.1 | | 09 | 13.1 | | | | | | | | | | | | | | | | | | | |
| 40 | 24 | 22241 | -56.4 | | 09 | 17.9 | 26 | 22537 | -43.7 | | 10 | 5.4 | 29 | 22419 | -51.1 | | 08 | 7.3 | 30 | 22337 | -54.1 | | 09 | 13.9 | 29 | 22486 | -50.0 | | 09 | 13.7 | | | | | | | | | | | | | | | | | | | |
| 30 | 24 | 24084 | -50.4 | | 09 | 18.4 | 23 | 24471 | -62.5 | | 09 | 7.0 | 24 | 24300 | -48.8 | | 08 | 7.1 | 24 | 24192 | -50.9 | | 09 | 15.8 | 24 | 24375 | -47.0 | | 09 | 13.7 | | | | | | | | | | | | | | | | | | | |
| 20 | 24 | 25270 | -52.2 | | 09 | 20.2 | 22 | 25703 | -41.3 | | 09 | 8.2 | 21 | 25507 | -47.1 | | 09 | 8.2 | 21 | 25388 | -48.9 | | 09 | 14.4 | 21 | 25548 | -45.7 | | 09 | 13.7 | | | | | | | | | | | | | | | | | | | |
| 15 | 24 | 26738 | -48.7 | | 12 | 21.1 | 21 | 26982 | -38.7 | | 09 | 9.2 | 20 | 26986 | -47.7 | | 09 | 9.2 | 20 | 26863 | -46.0 | | 09 | 15.2 | 20 | 26974 | -43.3 | | 09 | 13.7 | | | | | | | | | | | | | | | | | | | |
| 10 | 24 | 28632 | -45.0 | | 08 | 24.0 | 19 | 27203 | -36.9 | | 09 | 9.7 | 20 | 27936 | -41.5 | | 09 | 11.4 | 20 | 28786 | -43.5 | | 09 | 19.7 | 23 | 29331 | -40.2 | | 09 | 11.1 | | | | | | | | | | | | | | | | | | | |
| 0 | 7 | 31363 | -41.2 | | 09 | 13 | 33025 | -31.8 | | 09 | 12.1 | 6 | 31100 | -37.8 | | 09 | 12.7 | 13 | 31544 | -39.2 | | | | | | 31800 | -36.1 | | 09 | 13.4 | | | | | | | | | | | | | | | | | | | |

Average monthly values

[illegible]

| HILD, HAWAII
1017 HB | | | | | | | | | | MUNTINGTON W. VA.
988 ME | | | | | | | | | | * INTERNATIONAL FALLS, MINN.
971 MB | | | | | | | | | | JACKSON, MISS.
1006 MB | | | | | | | | | | JOHN F. KENNEDY INT. AP NY
1017 HB | | | | | | | | | |
|-------------------------|----|--------|-------|-------|----|------|----|--------|-------|-----------------------------|----|------|--------|--------|-------|-------|------|------|--------|--|-------|-------|----|-----|--------|--------|--------|-------|-----|---------------------------|-----|--|--|--|--|--|--|--|--|---------------------------------------|--|--|--|--|--|--|--|--|--|
| SURFACE | 31 | 11 | 21.2 | 19.3 | 25 | 2.2 | 31 | 246 | 18.2 | 16.5 | 19 | 9 | 31 | 359 | 15.3 | 11.9 | 22 | 1.0 | 31 | 100 | 21.9 | 20.9 | 19 | 4 | 31 | 5 | 21.6 | 16.1 | 24 | 1.4 | | | | | | | | | | | | | | | | | | | |
| 1000 | 31 | 155 | 21.9 | 19.6 | 28 | 1.1 | 31 | 143 | | | | | 31 | 107 | | | | 31 | 148 | 22.2 | 20.4 | 21 | 7 | 31 | 148 | 20.7 | 15.0 | 25 | 1.7 | | | | | | | | | | | | | | | | | | | | |
| 950 | 31 | 599 | 18.9 | 17.2 | 06 | 2.2 | 31 | 587 | 21.0 | 16.3 | 27 | 2.8 | 31 | 545 | 18.1 | 11.6 | 26 | 2.8 | 31 | 598 | 22.9 | 18.3 | 24 | 2.3 | 31 | 592 | 19.1 | 12.2 | 26 | 2.3 | | | | | | | | | | | | | | | | | | | |
| 900 | 31 | 1,003 | 15.8 | 14.2 | 08 | 4.0 | 31 | 1,055 | 18.8 | 12.7 | 27 | 4.3 | 31 | 1,008 | 16.3 | 8.1 | 27 | 4.8 | 31 | 1,069 | 20.4 | 14.8 | 24 | 2.5 | 31 | 1,055 | 16.6 | 8.1 | 25 | 3.4 | | | | | | | | | | | | | | | | | | | |
| 850 | 31 | 1,546 | 12.7 | 11.0 | 08 | 4.7 | 31 | 1,544 | 15.5 | 9.2 | 27 | 5.1 | 31 | 1,492 | 13.2 | 4.9 | 25 | 5.7 | 31 | 1,501 | 17.3 | 11.5 | 24 | 2.3 | 31 | 1,540 | 13.6 | 7.2 | 25 | 4.6 | | | | | | | | | | | | | | | | | | | |
| 800 | 31 | 2,054 | 10.3 | 7.2 | 01 | 5.4 | 31 | 2,056 | 12.4 | 5.3 | 27 | 6.5 | 31 | 2,000 | 10.3 | | 28 | 6.6 | 31 | 2,077 | 14.7 | 7.2 | 24 | 2.1 | 31 | 2,058 | 11.0 | 0.0 | 26 | 6.0 | | | | | | | | | | | | | | | | | | | |
| 750 | 31 | 2,590 | 7.6 | | | 7.2 | 59 | 2,591 | 9.9 | 3.2 | 1 | 7.1 | 31 | 2,537 | 7.8 | 27 | 7.3 | 6.6 | 31 | 2,597 | 12.1 | 2.7 | 25 | 1.3 | 31 | 2,587 | 7.2 | 2.9 | 24 | 6.4 | | | | | | | | | | | | | | | | | | | |
| 700 | 31 | 3,158 | 6.5 | -6.6 | 09 | 5.7 | 31 | 3,165 | 6.7 | -5.7 | 27 | 7.5 | 31 | 3,099 | 4.1 | -8.9 | 28 | 6.9 | 31 | 3,193 | 8.0 | -3.2 | 26 | 1.1 | 31 | 3,153 | 5.4 | -8.2 | 27 | 7.4 | | | | | | | | | | | | | | | | | | | |
| 650 | 31 | 3,764 | 4.6 | -14.3 | 08 | 3.9 | 31 | 3,771 | 3.5 | -9.1 | 27 | 8.0 | 31 | 3,698 | 9.9 | -12.6 | 28 | 7.6 | 31 | 3,801 | 4.4 | -6.3 | 27 | 7 | 31 | 3,750 | 2.7 | -12.1 | 27 | 7.5 | | | | | | | | | | | | | | | | | | | |
| 600 | 31 | 4,413 | 2.1 | -18.8 | 07 | 3.9 | 31 | 4,416 | 0.0 | -13.3 | 27 | 8.6 | 31 | 4,238 | -2.8 | -16.7 | 28 | 8.8 | 31 | 4,448 | 8.3 | -12.0 | 26 | 6 | 31 | 4,400 | -4.6 | -17.7 | 27 | 8.6 | | | | | | | | | | | | | | | | | | | |
| 550 | 31 | 5,111 | -1.3 | -22.3 | 05 | 2.0 | 31 | 5,109 | -3.7 | -18.3 | 27 | 8.8 | 31 | 5,022 | -6.8 | -21.5 | 29 | 9.1 | 31 | 5,140 | -3.8 | -18.5 | 06 | 4 | 31 | 5,090 | -4.6 | -21.3 | 27 | 9.1 | | | | | | | | | | | | | | | | | | | |
| 500 | 31 | 5,804 | -6.2 | -26.1 | 05 | | 7 | 5,855 | -8.3 | -22.6 | 27 | 9.0 | 31 | 5,760 | -11.1 | -25.4 | 29 | 10.4 | 31 | 5,887 | -8.3 | -24.0 | 33 | 4 | 31 | 5,834 | -8.9 | -24.8 | 27 | 9.5 | | | | | | | | | | | | | | | | | | | |
| 450 | 31 | 6,679 | -11.9 | -30.2 | 27 | 1.2 | 31 | 6,665 | -13.4 | -27.0 | 28 | 9.8 | 31 | 6,561 | -16.1 | -32.5 | 29 | 11.3 | 31 | 6,657 | -13.1 | -28.8 | 01 | 1.2 | 31 | 6,642 | -13.9 | -31.3 | 27 | 10.5 | | | | | | | | | | | | | | | | | | | |
| 400 | 31 | 7,569 | -18.6 | -36.9 | 27 | 3.6 | 7 | 7,561 | -21.6 | -39.2 | 27 | 11.1 | 31 | 7,437 | -23.7 | -40.7 | 29 | 12.1 | 31 | 7,595 | -15.2 | -34.7 | 25 | 1.0 | 31 | 7,527 | -16.5 | -34.5 | 26 | 10.5 | | | | | | | | | | | | | | | | | | | |
| 350 | 31 | 8,553 | -26.6 | -46.2 | 26 | 6.5 | 31 | 8,533 | -26.2 | -39.2 | 27 | 11.8 | 31 | 8,406 | -29.9 | -44.6 | 25 | 11.9 | 31 | 8,569 | -26.0 | -41.2 | 35 | 1.0 | 31 | 8,508 | -26.7 | -43.1 | 27 | 10.9 | | | | | | | | | | | | | | | | | | | |
| 300 | 31 | 9,646 | -34.9 | -49.1 | 25 | 7.2 | 31 | 9,627 | -34.5 | -46.9 | 27 | 12.9 | 31 | 9,483 | -37.9 | -50.3 | 29 | 13.4 | 31 | 9,603 | -34.3 | -47.8 | 31 | 1.0 | 31 | 9,599 | -35.3 | -51.9 | 27 | 10.8 | | | | | | | | | | | | | | | | | | | |
| 250 | 31 | 10,892 | -44.8 | | 26 | 8.9 | 31 | 10,875 | -44.5 | | 26 | 13.5 | 31 | 10,715 | -47.3 | | 29 | 15.3 | 31 | 10,913 | -44.1 | | 29 | 1.5 | 31 | 10,843 | -45.3 | | 28 | 10.9 | | | | | | | | | | | | | | | | | | | |
| 200 | 31 | 12,347 | -56.0 | | 27 | 12.0 | 31 | 12,335 | -55.0 | | 27 | 14.6 | 30 | 12,163 | -54.9 | | 29 | 17.8 | 31 | 12,373 | -55.3 | | 24 | 1.0 | 31 | 12,297 | -55.7 | | 28 | 12.8 | | | | | | | | | | | | | | | | | | | |
| 175 | 31 | 13,186 | -61.6 | | 27 | 13.4 | 31 | 13,180 | -58.9 | | 28 | 13.2 | 30 | 13,015 | -55.8 | | 29 | 17.1 | 31 | 13,215 | -60.5 | | 5 | 2.0 | 31 | 13,139 | -59.5 | | 29 | 11.8 | | | | | | | | | | | | | | | | | | | |
| 150 | 31 | 14,128 | -66.9 | | 26 | 11.7 | 31 | 14,140 | -62.1 | | 28 | 9.4 | 30 | 13,996 | -56.3 | | 29 | 15.0 | 31 | 14,164 | -65.2 | | 04 | 1.2 | 31 | 14,098 | -61.0 | | 29 | 11.1 | | | | | | | | | | | | | | | | | | | |
| 125 | 31 | 15,219 | -70.8 | | 25 | 6.5 | 31 | 15,261 | -63.8 | | 30 | 4.8 | 31 | 14,761 | -63.8 | | 29 | 11.8 | 31 | 15,267 | -67.1 | | 05 | 5 | 4.7 | 30 | 15,177 | -63.9 | | 30 | 6.2 | | | | | | | | | | | | | | | | | | |
| 100 | 31 | 16,532 | -72.6 | | 14 | 2.2 | 31 | 16,430 | -63.0 | | 35 | 2.7 | 29 | 16,558 | -57.6 | | 30 | 7.7 | 31 | 16,609 | -67.1 | | 05 | 6 | 6.2 | 28 | 16,608 | -61.0 | | 31 | 3.7 | | | | | | | | | | | | | | | | | | |
| 70 | 31 | 17,851 | -69.3 | | 10 | 10.0 | 31 | 18,011 | -61.0 | | 04 | 4.2 | 29 | 17,971 | -56.4 | | 32 | 4.0 | 31 | 17,965 | -64.5 | | 07 | 8 | 7.8 | 18,002 | -58.5 | | 02 | 1.7 | | | | | | | | | | | | | | | | | | | |
| 30 | 31 | 18,054 | -66.6 | | 10 | 12.9 | 31 | 18,844 | -59.1 | | 07 | 5.6 | 29 | 18,822 | -55.6 | | 35 | 2.6 | 31 | 18,786 | -62.3 | | 08 | 6 | 28 | 18,846 | -55.5 | | 05 | 2.1 | | | | | | | | | | | | | | | | | | | |
| 50 | 29 | 19,595 | -63.5 | | 09 | 15.6 | 31 | 19,816 | -56.7 | | 08 | 6.9 | 29 | 19,809 | -54.2 | | 04 | 2.8 | 31 | 19,744 | -59.7 | | 08 | 10 | 9.7 | 19,828 | -55.7 | | 08 | 4.2 | | | | | | | | | | | | | | | | | | | |
| 25 | 29 | 20,722 | -61.2 | | 09 | 19.3 | 30 | 20,982 | -54.1 | | 08 | 7.9 | 28 | 20,984 | -55.5 | | 07 | 3.0 | 30 | 20,994 | -56.4 | | 08 | 12 | 9.6 | 21,003 | -52.2 | | 09 | 6.1 | | | | | | | | | | | | | | | | | | | |
| 20 | 28 | 22,117 | -58.1 | | 09 | 21.7 | 29 | 22,502 | -51.4 | | 08 | 7.7 | 27 | 22,431 | -50.8 | | 07 | 4.7 | 30 | 22,319 | -56.0 | | 09 | 14 | 14 | 22,452 | -50.0 | | 09 | 9.0 | | | | | | | | | | | | | | | | | | | |
| 15 | 28 | 23,948 | -51.2 | | 09 | 25.2 | 29 | 24,368 | -48.4 | | 08 | 8.2 | 27 | 24,316 | -48.8 | | 07 | 6.8 | 30 | 24,200 | -50.7 | | 09 | 15 | 3 | 24,252 | -49.9 | | 09 | 9.0 | | | | | | | | | | | | | | | | | | | |
| 25 | 25 | 25,126 | -51.6 | | 09 | 26.8 | 26 | 25,507 | -47.0 | | 09 | 10.8 | 27 | 25,523 | -46.8 | | 08 | 8.0 | 29 | 25,374 | -48.9 | | 09 | 16 | 25 | 25,559 | -48.9 | | 09 | 9.2 | | | | | | | | | | | | | | | | | | | |
| 20 | 25 | 26,583 | -49.0 | | 09 | 27.4 | 2 | 26,994 | -45.5 | | 09 | 12.2 | 25 | 27,018 | -43.9 | | 09 | 9.4 | 26 | 26,847 | -46.5 | | 09 | 18 | 21 | 27,061 | -42.7 | | 09 | 10.3 | | | | | | | | | | | | | | | | | | | |
| 15 | 24 | 28,480 | -47.0 | | 09 | 28.3 | 20 | 28,927 | -42.4 | | 09 | 14.0 | 21 | 28,964 | -40.7 | | 09 | 11.5 | 26 | 28,766 | -44.4 | | 09 | 18 | 20 | 29,016 | -39.7 | | 09 | 11.5 | | | | | | | | | | | | | | | | | | | |
| 10 | 21 | 31,192 | -43.7 | | 09 | 31.8 | 14 | 31,684 | -38.2 | | | 17 | 31,752 | -35.9 | | 09 | 12.8 | 21 | 31,509 | -39.8 | | 09 | 23 | 12 | 31,810 | -34.3 | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | 13 | 33,591 | -41.1 | | | | | | | | | 13 | 34,246 | -31.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| JOHNSTON IS., PACIFIC AREA
1015 MB | | | | | | | | | | KEY WEST, FLA.
1016 MB | | | | | | | | | | KING SALMON, ALASKA
1008 MB | | | | | | | | | | KORDA CARLINE IS.
1007 MB | | | | | | | | | | KOTZEBUE, ALASKA
1007 MB | | | | | | | | | |
|---------------------------------------|----|-------|-------|-------|----|------|-------|-------|-------|---------------------------|----|------|----|-------|-------|-------|----|-----|-------|--------------------------------|-------|-------|------|------|-------|-------|-------|-------|----|------------------------------|--|--|--|--|--|--|--|--|--|-----------------------------|--|--|--|--|--|--|--|--|--|
| SURFACE | 31 | 134 | 26.0 | 22.4 | 08 | 6.4 | 30 | 31 | 27.4 | 24.0 | 12 | 2.2 | 31 | 15 | 8.9 | 5.3 | 16 | 2.5 | 31 | 30 | 27.9 | 24.8 | 22 | 5 | 31 | 5 | 11.0 | 8.2 | 24 | 1.9 | | | | | | | | | | | | | | | | | | | |
| 1000 | 31 | 134 | 24.7 | 20.7 | 08 | 7.7 | 30 | 146 | 27.1 | 23.4 | 12 | 2.4 | 31 | 79 | 9.3 | 6.0 | 17 | 2.9 | 31 | 93 | 26.8 | 22.9 | 23 | 7 | 31 | 64 | 11.6 | 4.2 | 23 | 1.6 | | | | | | | | | | | | | | | | | | | |
| 950 | 31 | 583 | 21.1 | 18.6 | 09 | 9.8 | 30 | 593 | 23.7 | 20.5 | 12 | 4.4 | 31 | 504 | 7.5 | 4.7 | 17 | 5.1 | 31 | 546 | 23.7 | 19.8 | 21 | 1.0 | 31 | 493 | 10.4 | 3.0 | 19 | 2.5 | | | | | | | | | | | | | | | | | | | |
| 900 | 31 | 1050 | 18.4 | 14.0 | 09 | 10.5 | 30 | 1070 | 20.5 | 16.1 | 12 | 4.3 | 31 | 948 | 5.1 | 2.8 | 17 | 5.1 | 31 | 1018 | 20.9 | 16.5 | 19 | 1.2 | 31 | 941 | 7.3 | 1.0 | 17 | 3.1 | | | | | | | | | | | | | | | | | | | |
| 850 | 31 | 1539 | 15.1 | 10.6 | 09 | 9.9 | 30 | 1543 | 17.3 | 10.6 | 12 | 4.2 | 31 | 1412 | 2.3 | 2.0 | 17 | 4.8 | 31 | 1412 | 12.5 | 8.1 | 20 | 1.4 | 31 | 1245 | 4.4 | -2.1 | 16 | 4.3 | | | | | | | | | | | | | | | | | | | |
| 800 | 31 | 2051 | 12.7 | 7.0 | 09 | 9.1 | 30 | 2080 | 15.0 | 5.1 | 12 | 4.2 | 31 | 1902 | 3.3 | -2.8 | 16 | 4.6 | 31 | 2029 | 15.2 | 9.6 | 13 | 1.2 | 30 | 1896 | 1.9 | -4.2 | 16 | 5.6 | | | | | | | | | | | | | | | | | | | |
| 750 | 31 | 2591 | 10.0 | 5.0 | 08 | 7.9 | 30 | 2620 | 11.9 | 5.1 | 13 | 3.9 | 31 | 2417 | -2.1 | -6.0 | 17 | 4.7 | 31 | 2574 | 12.5 | 5.8 | 11 | 1.8 | 30 | 2412 | -2.3 | -7.3 | 16 | 6.4 | | | | | | | | | | | | | | | | | | | |
| 700 | 31 | 3163 | 8.2 | -7.5 | 08 | 5.5 | 30 | 3199 | 8.4 | -8.4 | 14 | 3.7 | 31 | 2963 | -4.6 | -9.8 | 17 | 3.7 | 31 | 3150 | 9.4 | 2.0 | 12 | 2.4 | 30 | 2956 | -5.4 | -10.3 | 17 | 5.9 | | | | | | | | | | | | | | | | | | | |
| 650 | 31 | 3773 | 6.1 | -15.8 | 09 | 3.3 | 30 | 3798 | 4.8 | -7.5 | 13 | 4.2 | 31 | 3543 | -4.7 | -15.1 | 19 | 3.5 | 31 | 3762 | 6.0 | -1.3 | 11 | 3.5 | 29 | 3535 | -8.4 | -15.9 | 17 | 6.1 | | | | | | | | | | | | | | | | | | | |
| 600 | 31 | 4422 | 2.0 | -23.3 | 08 | 3.3 | 30 | 4456 | 1.1 | -11.2 | 14 | 4.8 | 31 | 4167 | -7.4 | -18.1 | 18 | 3.8 | 31 | 4314 | 6.6 | -7.0 | 10 | 3.8 | 29 | 4122 | -12.0 | -20.7 | 17 | 6.5 | | | | | | | | | | | | | | | | | | | |
| 550 | 31 | 5124 | -2.7 | -22.5 | 07 | 2.6 | 30 | 5142 | -3.1 | -19.7 | 15 | 2.2 | 31 | 4827 | -15.0 | -21.0 | 19 | 4.0 | 31 | 5112 | -1.6 | -1.6 | 10 | 5.0 | 29 | 4812 | -16.1 | -24.1 | 17 | 7.0 | | | | | | | | | | | | | | | | | | | |
| 500 | 31 | 5879 | -5.3 | -26.3 | 08 | 1.2 | 30 | 5900 | -7.5 | -19.2 | 16 | 1.9 | 31 | 5542 | -19.4 | -27.8 | 19 | 4.1 | 31 | 5865 | -5.8 | -16.2 | 10 | 6.9 | 29 | 5524 | -26.8 | -28.5 | 18 | 7.5 | | | | | | | | | | | | | | | | | | | |
| 450 | 31 | 6697 | -11.0 | -29.8 | 17 | 3.0 | 30 | 6704 | -12.7 | -23.5 | 16 | 1.2 | 31 | 6317 | -24.7 | -34.0 | 20 | 4.1 | 31 | 6684 | -10.3 | -22.1 | 10 | 6.8 | 29 | 6295 | -20.0 | -34.4 | 18 | 8.2 | | | | | | | | | | | | | | | | | | | |
| 400 | 31 | 7590 | -17.7 | -34.4 | 24 | 3.0 | 30 | 7602 | -18.5 | -31.6 | 18 | 1.2 | 31 | 7163 | -31.0 | -40.0 | 21 | 4.3 | 31 | 7582 | -15.9 | -28.1 | 09 | 7.4 | 29 | 7137 | -32.0 | -40.1 | 18 | 7.9 | | | | | | | | | | | | | | | | | | | |
| 350 | 31 | 8571 | -23.0 | -40.0 | 26 | 5.2 | 30 | 8584 | -25.8 | -36.3 | 19 | 1.0 | 31 | 8100 | -37.9 | -41.4 | 23 | 3.8 | 31 | 8479 | -22.5 | -35.8 | 08 | 8.1 | 29 | 8069 | -39.4 | -45.1 | 18 | 8.3 | | | | | | | | | | | | | | | | | | | |
| 300 | 31 | 9676 | -33.5 | -46.6 | 26 | 9.4 | 30 | 9682 | -34.6 | -45.4 | 24 | 2.3 | 31 | 9144 | -45.6 | -46.6 | 24 | 8.1 | 31 | 9688 | -30.9 | -43.2 | 10 | 9.1 | 29 | 9107 | -32.0 | -40.1 | 18 | 9.1 | | | | | | | | | | | | | | | | | | | |
| 250 | 31 | 10929 | -43.5 | | 26 | 13.8 | 30 | 10930 | -44.6 | | 24 | 2.9 | 31 | 10342 | -50.3 | | 25 | 6.2 | 31 | 10954 | -14.4 | -51.3 | 09 | 10.2 | 29 | 10302 | -51.0 | | 18 | 7.6 | | | | | | | | | | | | | | | | | | | |
| 200 | 31 | 12392 | -55.1 | | 26 | 17.4 | 30 | 12382 | -57.1 | | 26 | 5.6 | 31 | 11802 | -48.4 | | 25 | 6.2 | 31 | 12429 | -53.8 | | 08 | 11.1 | 29 | 11768 | -66.3 | | 17 | 4.3 | | | | | | | | | | | | | | | | | | | |
| 175 | 31 | 13331 | -61.6 | | 26 | 18.1 | 30 | 13235 | -63.1 | | 20 | 5.9 | 31 | 12683 | -47.5 | | 25 | 4.7 | 30 | 13271 | -60.8 | | 08 | 12.0 | 29 | 12658 | -65.1 | | 17 | 4.2 | | | | | | | | | | | | | | | | | | | |
| 150 | 31 | 14371 | -68.3 | | 26 | 17.7 | 30 | 14351 | -68.1 | | 30 | 5.3 | 31 | 13702 | -47.5 | | 24 | 4.1 | 30 | 14212 | -58.5 | | 07 | 13.4 | 29 | 13688 | -65.5 | | 13 | 2.9 | | | | | | | | | | | | | | | | | | | |
| 125 | 31 | 15352 | -72.8 | | 26 | 17.0 | 30 | 15237 | -70.6 | | 24 | 5.2 | 31 | 14490 | -68.1 | | 24 | 3.2 | 29 | 15285 | -76.2 | | 07 | 14.3 | 29 | 14905 | -65.5 | | 13 | 2.9 | | | | | | | | | | | | | | | | | | | |
| 100 | 31 | 16559 | -73.1 | | 16 | 2.3 | 30 | 16565 | -69.3 | | 07 | 5.6 | 31 | 16378 | -48.1 | | 22 | 1.5 | 29 | 16561 | -76.7 | | 08 | 12.0 | 29 | 16395 | -64.9 | | 12 | 3.1 | | | | | | | | | | | | | | | | | | | |
| 70 | 31 | 17878 | -69.7 | | 09 | 9.8 | 30 | 17906 | -66.7 | | 08 | 10.0 | 31 | 17850 | -47.8 | | 15 | 1.8 | 28 | 17863 | -71.5 | | 08 | 10.7 | 29 | 17888 | -64.5 | | 11 | 3.5 | | | | | | | | | | | | | | | | | | | |
| 70 | 31 | 18680 | -66.8 | | 09 | 13.7 | 30 | 18716 | -64.7 | | 07 | 12.5 | 31 | 18732 | -47.4 | | 14 | 2.2 | 28 | 18660 | -68.0 | | 09 | 10.8 | 29 | 18783 | -64.3 | | 10 | 3.8 | | | | | | | | | | | | | | | | | | | |
| 50 | 31 | 19616 | -64.4 | | 09 | 16.7 | 30 | 19653 | -61.9 | | 08 | 16.2 | 31 | 19752 | -47.3 | | 12 | 3.1 | 28 | 19590 | -66.0 | | 09 | 12.8 | 29 | 19817 | -64.1 | | 10 | 4.1 | | | | | | | | | | | | | | | | | | | |
| 50 | 31 | 20974 | -60.1 | | 09 | 20.8 | 30 | 20981 | -59.9 | | 07 | 19.0 | 31 | 20974 | -47.7 | | 11 | 2.0 | 28 | 20959 | -67.0 | | 09 | 13.1 | 29 | 20981 | -64.1 | | 10 | 4.1 | | | | | | | | | | | | | | | | | | | |
| 40 | 31 | 22138 | -58.2 | | 09 | 24.8 | 30 | 22214 | -55.3 | | 09 | 20.7 | 30 | 22438 | -46.6 | | 10 | 5.0 | 27 | 22208 | -60.5 | | 08 | 28.2 | 29 | 22543 | -63.2 | | 09 | 7.6 | | | | | | | | | | | | | | | | | | | |
| 30 | 31 | 23368 | -53.7 | | 09 | 26.7 | 30 | 23472 | -50.5 | | 09 | 21.0 | 30 | 23451 | -45.6 | | 9 | 6.1 | 27 | 23387 | -55.9 | | 09 | 35.6 | 29 | 23486 | -62.2 | | 08 | 7.5 | | | | | | | | | | | | | | | | | | | |
| 25 | 31 | 25145 | -51.9 | | 09 | 29.1 | 25 | 25287 | -48.1 | | 09 | 22.0 | 30 | 25568 | -44.7 | | 9 | 7.6 | 26 | 25306 | -52.7 | | 09 | 38.3 | 27 | 25724 | -41.3 | | 08 | 8.0 | | | | | | | | | | | | | | | | | | | |
| 20 | 31 | 26601 | -49.0 | | 09 | 31.8 | 28 | 26674 | -45.4 | | 08 | 22.6 | 29 | 27067 | -43.3 | | 9 | 8.2 | 25 | 26524 | -48.7 | | 09 | 39.5 | 26 | 27242 | -49.8 | | 09 | 10.1 | | | | | | | | | | | | | | | | | | | |
| 15 | 31 | 28502 | -46.8 | | 09 | 35.5 | 28 | 28572 | -43.6 | | 08 | 25.7 | 29 | 29010 | -38.5 | | 9 | 8.7 | 24 | 28797 | -53.7 | | 09 | 35.1 | 26 | 29229 | -42.0 | | 09 | 20.2 | | | | | | | | | | | | | | | | | | | |
| 10 | 31 | 31222 | -42.8 | | 09 | 31.2 | 31 | 31438 | -38.5 | | 09 | 28.8 | 30 | 31786 | -37.5 | | 9 | 19 | 31178 | -40.9 | | 09 | 19.5 | 5 | 32037 | -38.9 | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | 31 | 33657 | -39.5 | | 10 | 10 | 33609 | -35.5 | | | | | | | | | | | 7 | 33632 | -38.9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

See reference note at end of table

Average monthly values

JULY 1977

[illegible]

See reference note at end of table

RAWINSONDE DATA

Average monthly values

JULY 1970

| NOME, ALASKA
1006 MB | | | | | | | | | | NORTH PLATTE, NEBR.
918 MB | | | | | | | | | | DANLAND, CALIF.
1013 MB | | | | | | | | | | LHAMA, NEBR.
968 MB | | | | | | | | | | PAGO PAGO, AMERICAN SAMOA
1013 MB | | | | | | | | | |
|--------------------------------|----|--------|-------|-------|----|------|--------|--------|-------|--------------------------------|----|--------|-------|--------|-------|-------|--------|-------|-------|--------------------------------|-------|--------|-------|-------|-----|--------|--------|-------|-------|--------------------------------|----|--------|-------|-------|-----|------|-----|--------|-------|--------------------------------------|-----|------|----|--------|-------|-------|-----|-----|--|
| Standard pressure surface (mb) | | | | | | | | | | Standard pressure surface (mb) | | | | | | | | | | Standard pressure surface (mb) | | | | | | | | | | Standard pressure surface (mb) | | | | | | | | | | Standard pressure surface (mb) | | | | | | | | | |
| No of observations | | | | | | | | | | No of observations | | | | | | | | | | No of observations | | | | | | | | | | No of observations | | | | | | | | | | No of observations | | | | | | | | | |
| Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | |
| Temperature | | | | | | | | | | Temperature | | | | | | | | | | Temperature | | | | | | | | | | Temperature | | | | | | | | | | Temperature | | | | | | | | | |
| Dew Point + | | | | | | | | | | Dew Point + | | | | | | | | | | Dew Point + | | | | | | | | | | Dew Point + | | | | | | | | | | Dew Point + | | | | | | | | | |
| Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | |
| Speed M.P.s | | | | | | | | | | Speed M.P.s | | | | | | | | | | Speed M.P.s | | | | | | | | | | Speed M.P.s | | | | | | | | | | Speed M.P.s | | | | | | | | | |
| Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | |
| SURFACE | 31 | 5 | 8.4 | 5.4 | 11 | 7 | 3 | 8.7 | 16.0 | 12.3 | 12 | 9 | 31 | 11.5 | 11.5 | 29 | 1.9 | 31 | 4.03 | 18.8 | 15.6 | 19 | 1.6 | 31 | 120 | 20.5 | 19.8 | 11 | 6.2 | 31 | 5 | 28.1 | 23.0 | 11 | 3.0 | 31 | 120 | 20.5 | 19.8 | 11 | 6.2 | 31 | 5 | 28.1 | 23.0 | 11 | 3.0 | | |
| 1000 | 31 | 38 | 7.8 | 4.1 | 13 | 1.1 | 1.1 | 115 | 15.5 | 12.3 | 12 | 9 | 31 | 11.8 | 13.1 | 11.1 | 28 | 1.8 | 31 | 124 | 18.8 | 15.6 | 19 | 1.6 | 31 | 120 | 20.5 | 19.8 | 11 | 6.2 | 31 | 5 | 28.1 | 23.0 | 11 | 3.0 | 31 | 120 | 20.5 | 19.8 | 11 | 6.2 | 31 | 5 | 28.1 | 23.0 | 11 | 3.0 | |
| 950 | 31 | 928 | 5.4 | 2.4 | 15 | 4.2 | 1.0 | 1,020 | 19.7 | 12.8 | 17 | 1.6 | 31 | 5.1 | 5.1 | 2.9 | 27 | 2.9 | 31 | 5.67 | 21.0 | 10.4 | 21 | 5.1 | 31 | 1,041 | 19.1 | 14.3 | 10 | 7.6 | 31 | 1,041 | 19.1 | 14.3 | 10 | 7.6 | 31 | 1,041 | 19.1 | 14.3 | 10 | 7.6 | 31 | 1,041 | 19.1 | 14.3 | 10 | 7.6 | |
| 900 | 31 | 1,393 | 2.4 | -1.1 | 16 | 5.1 | 1.1 | 1,516 | 20.6 | 8.8 | 22 | 3.2 | 31 | 1,514 | 21.1 | -3.8 | 24 | 3.3 | 31 | 1,531 | 17.7 | 7.6 | 27 | 4.1 | 31 | 1,530 | 16.3 | 10.4 | 10 | 6.8 | 31 | 1,530 | 16.3 | 10.4 | 10 | 6.8 | 31 | 1,530 | 16.3 | 10.4 | 10 | 6.8 | 31 | 1,530 | 16.3 | 10.4 | 10 | 6.8 | |
| 850 | 31 | 1,882 | 2 | -3.3 | 16 | 5.9 | 1.1 | 2,038 | 18.3 | 6.1 | 25 | 3.4 | 31 | 2,034 | 17.9 | -6.3 | 21 | 3.9 | 31 | 2,047 | 15.1 | -4.8 | 27 | 4.6 | 31 | 2,046 | 15.7 | 2.1 | 10 | 4.3 | 31 | 2,046 | 15.7 | 2.1 | 10 | 4.3 | 31 | 2,046 | 15.7 | 2.1 | 10 | 4.3 | 31 | 2,046 | 15.7 | 2.1 | 10 | 4.3 | |
| 800 | 31 | 2,397 | -2.6 | -6.8 | 16 | 5.3 | 1.1 | 2,589 | 15.0 | 4.5 | 28 | 5.3 | 31 | 2,582 | 14.2 | -8.8 | 20 | 4.4 | 31 | 2,591 | 12.1 | -1.2 | 26 | 5.1 | 31 | 2,590 | 13.5 | -1.2 | 10 | 2.9 | 31 | 2,590 | 13.5 | -1.2 | 10 | 2.9 | 31 | 2,590 | 13.5 | -1.2 | 10 | 2.9 | 31 | 2,590 | 13.5 | -1.2 | 10 | 2.9 | |
| 750 | 31 | 2,942 | -5.4 | -11.0 | 16 | 5.6 | 1.1 | 3,169 | 10.8 | -1.4 | 29 | 5.6 | 31 | 3,159 | 10.6 | -2.9 | 19 | 6.1 | 31 | 3,166 | 8.7 | -5.3 | 29 | 6.6 | 31 | 3,169 | 10.0 | -5.0 | 8 | 2.7 | 31 | 3,169 | 10.0 | -5.0 | 8 | 2.7 | 31 | 3,169 | 10.0 | -5.0 | 8 | 2.7 | 31 | 3,169 | 10.0 | -5.0 | 8 | 2.7 | |
| 700 | 31 | 3,520 | -8.3 | -14.6 | 16 | 6.3 | 1.1 | 3,773 | 6.5 | -0.2 | 29 | 6.3 | 31 | 3,771 | 6.3 | -1.5 | 20 | 5.9 | 31 | 3,775 | 5.0 | -9.3 | 29 | 6.6 | 31 | 3,782 | 6.6 | -9.2 | 8 | 2.3 | 31 | 3,782 | 6.6 | -9.2 | 8 | 2.3 | 31 | 3,782 | 6.6 | -9.2 | 8 | 2.3 | 31 | 3,782 | 6.6 | -9.2 | 8 | 2.3 | |
| 650 | 31 | 4,138 | -11.8 | -19.7 | 16 | 6.4 | 1.1 | 4,434 | 1.8 | -11.3 | 30 | 7.1 | 31 | 4,421 | 1.9 | -19.0 | 20 | 5.8 | 31 | 4,423 | 1.2 | -14.1 | 29 | 6.7 | 31 | 4,434 | 2.9 | -13.0 | 20 | 2.7 | 31 | 4,434 | 2.9 | -13.0 | 20 | 2.7 | 31 | 4,434 | 2.9 | -13.0 | 20 | 2.7 | 31 | 4,434 | 2.9 | -13.0 | 20 | 2.7 | |
| 600 | 31 | 4,799 | -16.0 | -24.2 | 17 | 6.6 | 1.1 | 5,129 | -2.9 | -15.6 | 30 | 7.4 | 31 | 5,116 | -2.8 | -22.9 | 21 | 5.5 | 31 | 5,118 | -3.2 | -18.6 | 28 | 7.9 | 31 | 5,133 | -1.1 | -18.5 | 10 | 1.9 | 31 | 5,133 | -1.1 | -18.5 | 10 | 1.9 | 31 | 5,133 | -1.1 | -18.5 | 10 | 1.9 | 31 | 5,133 | -1.1 | -18.5 | 10 | 1.9 | |
| 550 | 31 | 5,510 | -20.7 | -30.6 | 17 | 7.0 | 1.1 | 5,877 | -8.0 | -21.8 | 29 | 7.9 | 31 | 5,864 | -8.2 | -27.8 | 22 | 6.0 | 31 | 5,866 | -7.9 | -24.0 | 28 | 9.1 | 31 | 5,887 | -5.6 | -23.5 | 10 | 1.3 | 31 | 5,887 | -5.6 | -23.5 | 10 | 1.3 | 31 | 5,887 | -5.6 | -23.5 | 10 | 1.3 | 31 | 5,887 | -5.6 | -23.5 | 10 | 1.3 | |
| 500 | 31 | 6,282 | -25.9 | -33.6 | 17 | 6.9 | 1.1 | 6,689 | -12.6 | -27.8 | 28 | 8.5 | 31 | 6,673 | -14.1 | -33.0 | 23 | 8.1 | 31 | 6,676 | -13.2 | -28.2 | 29 | 9.7 | 31 | 6,706 | -10.6 | -28.1 | 10 | 1.4 | 31 | 6,706 | -10.6 | -28.1 | 10 | 1.4 | 31 | 6,706 | -10.6 | -28.1 | 10 | 1.4 | 31 | 6,706 | -10.6 | -28.1 | 10 | 1.4 | |
| 450 | 31 | 7,124 | -32.1 | -39.0 | 17 | 6.9 | 1.1 | 7,577 | -18.9 | -34.6 | 29 | 9.5 | 31 | 7,555 | -21.0 | -38.9 | 23 | 9.3 | 31 | 7,562 | -19.5 | -34.3 | 29 | 11.6 | 31 | 7,602 | -16.3 | -33.3 | 10 | 2 | 31 | 7,602 | -16.3 | -33.3 | 10 | 2 | 31 | 7,602 | -16.3 | -33.3 | 10 | 2 | 31 | 7,602 | -16.3 | -33.3 | 10 | 2 | |
| 400 | 31 | 8,056 | -39.0 | -44.1 | 18 | 7.6 | 1.1 | 8,581 | -25.9 | -40.2 | 29 | 11.9 | 31 | 8,530 | -28.3 | -44.2 | 23 | 10.7 | 31 | 8,544 | -26.6 | -40.3 | 30 | 12.5 | 31 | 8,597 | -23.3 | -39.6 | 10 | 2.8 | 31 | 8,597 | -23.3 | -39.6 | 10 | 2.8 | 31 | 8,597 | -23.3 | -39.6 | 10 | 2.8 | 31 | 8,597 | -23.3 | -39.6 | 10 | 2.8 | |
| 350 | 31 | 9,094 | -46.3 | -51.8 | 18 | 8.1 | 1.1 | 9,657 | -34.1 | -47.7 | 29 | 14.0 | 31 | 9,614 | -36.9 | -51.3 | 23 | 13.0 | 31 | 9,636 | -34.6 | -47.0 | 30 | 14.5 | 31 | 9,703 | -32.0 | -47.1 | 10 | 3.4 | 31 | 9,703 | -32.0 | -47.1 | 10 | 3.4 | 31 | 9,703 | -32.0 | -47.1 | 10 | 3.4 | 31 | 9,703 | -32.0 | -47.1 | 10 | 3.4 | |
| 300 | 31 | 10,280 | -50.7 | -56.2 | 18 | 8.8 | 1.1 | 10,907 | -44.0 | -55.9 | 29 | 18.2 | 31 | 10,851 | -45.9 | -58.8 | 23 | 16.0 | 31 | 10,885 | -44.3 | -58.3 | 30 | 17.2 | 31 | 10,964 | -42.2 | -58.4 | 10 | 4.1 | 31 | 10,964 | -42.2 | -58.4 | 10 | 4.1 | 31 | 10,964 | -42.2 | -58.4 | 10 | 4.1 | 31 | 10,964 | -42.2 | -58.4 | 10 | 4.1 | |
| 250 | 31 | 11,749 | -46.0 | -52.5 | 18 | 9.8 | 1.1 | 12,371 | -54.2 | -59.2 | 29 | 20.9 | 31 | 12,307 | -54.9 | -60.8 | 23 | 18.0 | 31 | 12,347 | -54.0 | -60.3 | 30 | 19.3 | 31 | 12,434 | -51.1 | -60.3 | 10 | 4.6 | 31 | 12,434 | -51.1 | -60.3 | 10 | 4.6 | 31 | 12,434 | -51.1 | -60.3 | 10 | 4.6 | 31 | 12,434 | -51.1 | -60.3 | 10 | 4.6 | |
| 200 | 31 | 12,640 | -45.2 | -51.8 | 18 | 11.1 | 1.1 | 13,220 | -58.3 | -62.6 | 29 | 20.2 | 31 | 13,154 | -59.2 | -63.6 | 23 | 18.7 | 31 | 13,197 | -57.8 | -62.9 | 30 | 18.6 | 31 | 13,279 | -50.2 | -62.9 | 10 | 5.8 | 31 | 13,279 | -50.2 | -62.9 | 10 | 5.8 | 31 | 13,279 | -50.2 | -62.9 | 10 | 5.8 | 31 | 13,279 | -50.2 | -62.9 | 10 | 5.8 | |
| 175 | 31 | 13,689 | -45.3 | -51.3 | 18 | 12.1 | 1.1 | 14,189 | -62.6 | -66.9 | 29 | 16.9 | 31 | 14,117 | -61.0 | -66.0 | 23 | 17.3 | 31 | 14,162 | -61.0 | -66.0 | 30 | 14.2 | 31 | 14,222 | -67.5 | -67.5 | 10 | 5.5 | 31 | 14,222 | -67.5 | -67.5 | 10 | 5.5 | 31 | 14,222 | -67.5 | -67.5 | 10 | 5.5 | 31 | 14,222 | -67.5 | -67.5 | 10 | 5.5 | |
| 150 | 31 | 14,885 | -45.6 | -51.3 | 13 | 2.0 | 30 | 15,295 | -65.8 | -70.9 | 30 | 10.7 | 31 | 15,237 | -65.1 | -70.6 | 24 | 12.9 | 30 | 15,285 | -64.3 | -70.3 | 31 | 10.1 | 31 | 15,303 | -74.1 | -74.1 | 26 | 4.7 | 31 | 15,303 | -74.1 | -74.1 | 26 | 4.7 | 31 | 15,303 | -74.1 | -74.1 | 26 | 4.7 | 31 | 15,303 | -74.1 | -74.1 | 26 | 4.7 | |
| 100 | 31 | 16,372 | -45.8 | -51.3 | 12 | 3.6 | 30 | 16,653 | -64.2 | -70.0 | 30 | 4.6 | 31 | 16,596 | -64.7 | -70.7 | 22 | 5.2 | 29 | 16,652 | -63.7 | -70.3 | 31 | 5.1 | 31 | 16,590 | -72.9 | -72.9 | 27 | 3.0 | 31 | 16,590 | -72.9 | -72.9 | 27 | 3.0 | 31 | 16,590 | -72.9 | -72.9 | 27 | 3.0 | | | | | | | |
| 50 | 31 | 17,859 | -45.5 | -51.3 | 10 | 3.0 | 29 | 18,021 | -61.8 | -67.8 | 02 | 1.7 | 31 | 17,964 | -63.0 | -69.0 | 16 | 3.2 | 29 | 18,029 | -61.0 | -67.0 | 03 | 1.6 | 31 | 17,898 | -76.0 | -76.0 | 27 | 2.8 | 31 | 17,898 | -76.0 | -76.0 | 27 | 2.8 | 31 | 17,898 | -76.0 | -76.0 | 27 | 2.8 | | | | | | | |
| 20 | 31 | 19,747 | -45.2 | -51.3 | 10 | 3.1 | 28 | 18,851 | -60.1 | -66.1 | 07 | 1.3 | 31 | 18,789 | -61.3 | -67.3 | 04 | 1.4 | 31 | 18,852 | -59.3 | -65.3 | 06 | 1.5 | 31 | 18,800 | -80.7 | -80.7 | 27 | 2.8 | 31 | 18,800 | -80.7 | -80.7 | 27 | 2.8 | 31 | 18,800 | -80.7 | -80.7 | 27 | 2.8 | | | | | | | |
| 10 | 31 | 20,997 | -44.6 | -51.3 | 09 | 4.5 | 29 | 20,975 | -55.0 | -61.0 | 08 | 6.8 | 31 | 20,904 | -55.8 | -61.8 | 10 | 6.1 | 29 | 20,932 | -57.5 | -63.5 | 07 | 6.0 | 31 | 19,922 | -62.1 | -68.1 | 08 | 1.4 | 31 | 19,922 | -62.1 | -68.1 | 08 | 1.4 | 31 | 19,922 | -62.1 | -68.1 | 08 | 1.4 | | | | | | | |
| 30 | 28 | 22,493 | -44.1 | -51.3 | 08 | 5.8 | 28 | 22,410 | -52.2 | -58.2 | 08 | 7.5 | 31 | 22,332 | -53.6 | -59.6 | 09 | 8.8 | 29 | 22,428 | -52.3 | -58.3 | 08 | 7.8 | 31 | 22,162 | -57.5 | -63.5 | 09 | 10.1 | 31 | 22,162 | -57.5 | -63.5 | 09 | 10.1 | 31 | 22,162 | -57.5 | -63.5 | 09 | 10.1 | | | | | | | |
| 40 | 28 | 24,427 | -43.2 | -51.3 | 08 | 8.1 | 26 | 24,285 | -49.2 | -55.2 | 08 | 8.0 | 31 | 24,196 | -50.7 | -56.7 | 09 | 10.3 | 26 | 24,302 | -49.1 | -55.1 | 08 | 8.7 | 30 | 23,991 | -57.5 | -63.5 | 09 | 13.1 | 31 | 23,991 | -57.5 | -63.5 | 09 | 13.1 | 31 | 23,991 | -57.5 | -63.5 | 09 | 13.1 | | | | | | | |
| 25 | 28 | 25,658 | -42.1 | -51.3 | 09 | 8.2 | 25 | 25,584 | -47.4 | -53.4 | 08 | 11.5 | 29 | 25,338 | -49.1 | -55.1 | 09 | 12.8 | 25 | 25,502 | -47.9 | -53.9 | 08 | 9.1 | 29 | 25,170 | -51.3 | -57.3 | 09 | 16.1 | 31 | 25,170 | -51.3 | -57.3 | 09 | 16.1 | 31 | 25,170 | -51.3 | -57.3 | 09 | 16.1 | | | | | | | |
| 15 | 28 | 27,135 | -38.0 | -51.3 | 09 | 10.2 | 19 | 28,885 | -42.9 | -48.9 | 08 | 9.1 | 29 | 28,775 | -44.1 | -50.1 | 09 | 13.4 | 14 | 28,983 | -43.5 | -49.5 | 08 | 9.9 | 29 | 28,630 | -48.1 | -54.1 | 09 | 13.6 | 31 | 28,630 | -48.1 | -54.1 | 09 | 13.6 | 31 | 28,630 | -48.1 | -54.1 | 09 | 13.6 | | | | | | | |
| 10 | 22 | 31,959 | -33.0 | -51.3 | 09 | 11.3 | 11 | 31,659 | -39.2 | -45.2 | 09 | 11.1 | 31 | 31,512 | -40.1 | -46.1 | 09 | 13.4 | 14 | 28,918 | -43.0 | -49.0 | 09 | 12.2 | 27 | 28,542 | -45.5 | -51.5 | 09 | 9.9 | 31 | 28,542 | -45.5 | -51.5 | 09 | 9.9 | 31 | 28,542 | -45.5 | -51.5 | 09 | 9.9 | | | | | | | |
| 7 | 13 | 34,480 | -28.7 | -51.3 | 06 | 3 | 34,120 | -35.6 | -41.6 | 05 | 5 | 33,978 | -35.9 | -41.9 | 05 | 5 | 33,978 | -35.9 | -41.9 | 05 | 5 | 33,978 | -35.9 | -41.9 | 05 | 5 | 33,978 | -35.9 | -41.9 | | | | | | | | | | | | | | | | | | | | |

RAWINSONDE DATA

Average monthly values

JULY 197

| SALT LAKE CITY, UTAH
873 MB | | | | | | | | | | SAN DIEGO, CALIF.
1016 MB | | | | | | | | | | SALT STE MARIE, MICH.
988 MB | | | | | | | | | | SHEWATER, DAKOTA
1004 MB | | | | | | | | | |
|-----------------------------------|--------------------|----------------|-------------|-----------|-----------|-------|------|-----------|-------|-----------------------------------|--------------------|----------------|-------------|-----------|-----------|-------|------|-----------|-------|-----------------------------------|--------------------|----------------|-------------|-----------|-----------|-------|------|-----------|-------|-----------------------------------|--------------------|----------------|-------------|-----------|-----------|-------|------|-----------|-------|
| Standard pressure
surface (mb) | No of observations | Dynamic height | Temperature | Dew Point | Direction | Speed | Wind | Direction | Speed | Standard pressure
surface (mb) | No of observations | Dynamic height | Temperature | Dew Point | Direction | Speed | Wind | Direction | Speed | Standard pressure
surface (mb) | No of observations | Dynamic height | Temperature | Dew Point | Direction | Speed | Wind | Direction | Speed | Standard pressure
surface (mb) | No of observations | Dynamic height | Temperature | Dew Point | Direction | Speed | Wind | Direction | Speed |
| 950 | 3 | 1.288 | 18.3 | 8.8 | 15 | 3.4 | 3.4 | 1.288 | 18.3 | 8.8 | 15 | 3.4 | 3.4 | 1.288 | 18.3 | 8.8 | 15 | 3.4 | 3.4 | 1.288 | 18.3 | 8.8 | 15 | 3.4 | 3.4 | 1.288 | 18.3 | 8.8 | 15 | 3.4 | 3.4 | 1.288 | 18.3 | 8.8 | 15 | 3.4 | 3.4 | | |
| 900 | 3 | 1.288 | 18.3 | 8.8 | 15 | 3.4 | 3.4 | 1.288 | 18.3 | 8.8 | 15 | 3.4 | 3.4 | 1.288 | 18.3 | 8.8 | 15 | 3.4 | 3.4 | 1.288 | 18.3 | 8.8 | 15 | 3.4 | 3.4 | 1.288 | 18.3 | 8.8 | 15 | 3.4 | 3.4 | 1.288 | 18.3 | 8.8 | 15 | 3.4 | 3.4 | | |
| 850 | 3 | 1.288 | 18.3 | 8.8 | 15 | 3.4 | 3.4 | 1.288 | 18.3 | 8.8 | 15 | 3.4 | 3.4 | 1.288 | 18.3 | 8.8 | 15 | 3.4 | 3.4 | 1.288 | 18.3 | 8.8 | 15 | 3.4 | 3.4 | 1.288 | 18.3 | 8.8 | 15 | 3.4 | 3.4 | 1.288 | 18.3 | 8.8 | 15 | 3.4 | 3.4 | | |
| 800 | 3 | 1.288 | 18.3 | 8.8 | 15 | 3.4 | 3.4 | 1.288 | 18.3 | 8.8 | 15 | 3.4 | 3.4 | 1.288 | 18.3 | 8.8 | 15 | 3.4 | 3.4 | 1.288 | 18.3 | 8.8 | 15 | 3.4 | 3.4 | 1.288 | 18.3 | 8.8 | 15 | 3.4 | 3.4 | 1.288 | 18.3 | 8.8 | 15 | 3.4 | 3.4 | | |
| 750 | 3 | 1.288 | 18.3 | 8.8 | 15 | 3.4 | 3.4 | 1.288 | 18.3 | 8.8 | 15 | 3.4 | 3.4 | 1.288 | 18.3 | 8.8 | 15 | 3.4 | 3.4 | 1.288 | 18.3 | 8.8 | 15 | 3.4 | 3.4 | 1.288 | 18.3 | 8.8 | 15 | 3.4 | 3.4 | 1.288 | 18.3 | 8.8 | 15 | 3.4 | 3.4 | | |
| 700 | 3 | 1.288 | 18.3 | 8.8 | 15 | 3.4 | 3.4 | 1.288 | 18.3 | 8.8 | 15 | 3.4 | 3.4 | 1.288 | 18.3 | 8.8 | 15 | 3.4 | 3.4 | 1.288 | 18.3 | 8.8 | 15 | 3.4 | 3.4 | 1.288 | 18.3 | 8.8 | 15 | 3.4 | 3.4 | 1.288 | 18.3 | 8.8 | 15 | 3.4 | 3.4 | | |
| 650 | 3 | 1.288 | 18.3 | 8.8 | 15 | 3.4 | 3.4 | 1.288 | 18.3 | 8.8 | 15 | 3.4 | 3.4 | 1.288 | 18.3 | 8.8 | 15 | 3.4 | 3.4 | 1.288 | 18.3 | 8.8 | 15 | 3.4 | 3.4 | 1.288 | 18.3 | 8.8 | 15 | 3.4 | 3.4 | 1.288 | 18.3 | 8.8 | 15 | 3.4 | 3.4 | | |
| 600 | 3 | 1.288 | 18.3 | 8.8 | 15 | 3.4 | 3.4 | 1.288 | 18.3 | 8.8 | 15 | 3.4 | 3.4 | 1.288 | 18.3 | 8.8 | 15 | 3.4 | 3.4 | 1.288 | 18.3 | 8.8 | 15 | 3.4 | 3.4 | 1.288 | 18.3 | 8.8 | 15 | 3.4 | 3.4 | 1.288 | 18.3 | 8.8 | 15 | 3.4 | 3.4 | | |
| 550 | 3 | 1.288 | 18.3 | 8.8 | 15 | 3.4 | 3.4 | 1.288 | 18.3 | 8.8 | 15 | 3.4 | 3.4 | 1.288 | 18.3 | 8.8 | 15 | 3.4 | 3.4 | 1.288 | 18.3 | 8.8 | 15 | 3.4 | 3.4 | 1.288 | 18.3 | 8.8 | 15 | 3.4 | 3.4 | 1.288 | 18.3 | 8.8 | 15 | 3.4 | 3.4 | | |
| 500 | 3 | 1.288 | 18.3 | 8.8 | 15 | 3.4 | 3.4 | 1.288 | 18.3 | 8.8 | 15 | 3.4 | 3.4 | 1.288 | 18.3 | 8.8 | 15 | 3.4 | 3.4 | 1.288 | 18.3 | 8.8 | 15 | 3.4 | 3.4 | 1.288 | 18.3 | 8.8 | 15 | 3.4 | 3.4 | 1.288 | 18.3 | 8.8 | 15 | 3.4 | 3.4 | | |
| 450 | 3 | 1.288 | 18.3 | 8.8 | 15 | 3.4 | 3.4 | 1.288 | 18.3 | 8.8 | 15 | 3.4 | 3.4 | 1.288 | 18.3 | 8.8 | 15 | 3.4 | 3.4 | 1.288 | 18.3 | 8.8 | 15 | 3.4 | 3.4 | 1.288 | 18.3 | 8.8 | 15 | 3.4 | 3.4 | 1.288 | 18.3 | 8.8 | 15 | 3.4 | 3.4 | | |
| 400 | 3 | 1.288 | 18.3 | 8.8 | 15 | 3.4 | 3.4 | 1.288 | 18.3 | 8.8 | 15 | 3.4 | 3.4 | 1.288 | 18.3 | 8.8 | 15 | 3.4 | 3.4 | 1.288 | 18.3 | 8.8 | 15 | 3.4 | 3.4 | 1.288 | 18.3 | 8.8 | 15 | 3.4 | 3.4 | 1.288 | 18.3 | 8.8 | 15 | 3.4 | 3.4 | | |
| 350 | 3 | 1.288 | 18.3 | 8.8 | 15 | 3.4 | 3.4 | 1.288 | 18.3 | 8.8 | 15 | 3.4 | 3.4 | 1.288 | 18.3 | 8.8 | 15 | 3.4 | 3.4 | 1.288 | 18.3 | 8.8 | 15 | 3.4 | 3.4 | 1.288 | 18.3 | 8.8 | 15 | 3.4 | 3.4 | 1.288 | 18.3 | 8.8 | 15 | 3.4 | 3.4 | | |
| 300 | 3 | 1.288 | 18.3 | 8.8 | 15 | 3.4 | 3.4 | 1.288 | 18.3 | 8.8 | 15 | 3.4 | 3.4 | 1.288 | 18.3 | 8.8 | 15 | 3.4 | 3.4 | 1.288 | 18.3 | 8.8 | 15 | 3.4 | 3.4 | 1.288 | 18.3 | 8.8 | 15 | 3.4 | 3.4 | 1.288 | 18.3 | 8.8 | 15 | 3.4 | 3.4 | | |
| 250 | 3 | 1.288 | 18.3 | 8.8 | 15 | 3.4 | 3.4 | 1.288 | 18.3 | 8.8 | 15 | 3.4 | 3.4 | 1.288 | 18.3 | 8.8 | 15 | 3.4 | 3.4 | 1.288 | 18.3 | 8.8 | 15 | 3.4 | 3.4 | 1.288 | 18.3 | 8.8 | 15 | 3.4 | 3.4 | 1.288 | 18.3 | 8.8 | 15 | 3.4 | 3.4 | | |
| 200 | 3 | 1.288 | 18.3 | 8.8 | 15 | 3.4 | 3.4 | 1.288 | 18.3 | 8.8 | 15 | 3.4 | 3.4 | 1.288 | 18.3 | 8.8 | 15 | 3.4 | 3.4 | 1.288 | 18.3 | 8.8 | 15 | 3.4 | 3.4 | 1.288 | 18.3 | 8.8 | 15 | 3.4 | 3.4 | 1.288 | 18.3 | 8.8 | 15 | 3.4 | 3.4 | | |
| 150 | 3 | 1.288 | 18.3 | 8.8 | 15 | 3.4 | 3.4 | 1.288 | 18.3 | 8.8 | 15 | 3.4 | 3.4 | 1.288 | 18.3 | 8.8 | 15 | 3.4 | 3.4 | 1.288 | 18.3 | 8.8 | 15 | 3.4 | 3.4 | 1.288 | 18.3 | 8.8 | 15 | 3.4 | 3.4 | 1.288 | 18.3 | 8.8 | 15 | 3.4 | 3.4 | | |
| 100 | 3 | 1.288 | 18.3 | 8.8 | 15 | 3.4 | 3.4 | 1.288 | 18.3 | 8.8 | 15 | 3.4 | 3.4 | 1.288 | 18.3 | 8.8 | 15 | 3.4 | 3.4 | 1.288 | 18.3 | 8.8 | 15 | 3.4 | 3.4 | 1.288 | 18.3 | 8.8 | 15 | 3.4 | 3.4 | 1.288 | 18.3 | 8.8 | 15 | 3.4 | 3.4 | | |
| 50 | 3 | 1.288 | 18.3 | 8.8 | 15 | 3.4 | 3.4 | 1.288 | 18.3 | 8.8 | 15 | 3.4 | 3.4 | 1.288 | 18.3 | 8.8 | 15 | 3.4 | 3.4 | 1.288 | 18.3 | 8.8 | 15 | 3.4 | 3.4 | 1.288 | 18.3 | 8.8 | 15 | 3.4 | 3.4 | 1.288 | 18.3 | 8.8 | 15 | 3.4 | 3.4 | | |
| 0 | 3 | 1.288 | 18.3 | 8.8 | 15 | 3.4 | 3.4 | 1.288 | 18.3 | 8.8 | 15 | 3.4 | 3.4 | 1.288 | 18.3 | 8.8 | 15 | 3.4 | 3.4 | 1.288 | 18.3 | 8.8 | 15 | 3.4 | 3.4 | 1.288 | 18.3 | 8.8 | 15 | 3.4 | 3.4 | 1.288 | 18.3 | 8.8 | 15 | 3.4 | 3.4 | | |

See reference note at end of table

Average monthly values

JULY 1970

The temperature and wind values are based on 15 or more observations at the surface or 5 observations at a standard pressure level for temperature and 10 for wind. Dew Point data are not published for standard pressure surfaces for which less than 5 observations are available. Dew Point data are computed and expressed on the basis of vapor pressure over water. Unless otherwise indicated, they are obtained from carbon hygristors.

SOLAR RADIATION INTENSITIES

Tabulated in langleys per minute on a surface normal to the direction of the sun.

| Date | Sun's zenith distance | | | | | | | | |
|----------------------|-----------------------|-------|-------|-------|------|-------|-------|-------|-------|
| | A. M. | | | | | P. M. | | | |
| | 78.7° | 75.7° | 70.7° | 60.0° | * | 60.0° | 70.7° | 75.7° | 78.7° |
| ALBUQUERQUE, N. MEX. | | | | | | | | | |
| | Air mass | | | | | | | | |
| | 4.19 | 3.35 | 2.51 | 1.67 | * | 1.67 | 2.51 | 3.35 | 4.19 |
| July | | | | | | | | | |
| 1----- | 0.75 | 0.87 | 0.99 | 1.12 | 1.35 | 1.11 | 0.84 | 0.70 | 0.74 |
| 2----- | .77 | .84 | .98 | 1.12 | 1.32 | 1.08 | .93 | .81 | .82 |
| 3----- | | | | 1.13 | 1.32 | 1.05 | .90 | .78 | .80 |
| 4----- | | | | | 1.32 | 1.05 | .90 | .78 | .80 |
| 5----- | | | | | 1.26 | 1.05 | .90 | .78 | .80 |
| 6----- | | | | | 1.26 | 1.05 | .90 | .78 | .80 |
| 7----- | .71 | .78 | .90 | 1.06 | 1.34 | 1.05 | .90 | .78 | .80 |
| 8----- | .74 | .81 | .92 | 1.06 | 1.26 | 1.05 | .90 | .78 | .80 |
| 9----- | .77 | .84 | .96 | 1.13 | 1.30 | 1.13 | .93 | .81 | .82 |
| 10----- | | | | 1.12 | 1.34 | 1.13 | .93 | .81 | .82 |
| 11----- | | | | 1.12 | 1.34 | 1.13 | .93 | .81 | .82 |
| 12----- | .87 | .94 | 1.07 | 1.18 | 1.27 | 1.21 | 1.05 | .90 | .80 |
| 13----- | .72 | .82 | .95 | 1.12 | 1.35 | 1.08 | .90 | .78 | .80 |
| 14----- | .66 | .74 | .87 | 1.05 | 1.27 | 1.05 | .90 | .78 | .80 |
| 15----- | .77 | .85 | .98 | 1.12 | 1.28 | 1.05 | .90 | .78 | .80 |
| 16----- | .69 | .78 | .94 | 1.05 | 1.26 | 1.05 | .90 | .78 | .80 |
| 17----- | | | | 1.28 | 1.28 | 1.05 | .90 | .78 | .80 |
| 18----- | | | | 1.28 | 1.28 | 1.05 | .90 | .78 | .80 |
| 19----- | | | | 1.28 | 1.28 | 1.05 | .90 | .78 | .80 |
| 20----- | .78 | .87 | .98 | 1.13 | 1.25 | 1.05 | .90 | .78 | .80 |
| 21----- | | | | 1.25 | 1.25 | 1.05 | .90 | .78 | .80 |
| 22----- | | | | 1.28 | 1.28 | 1.05 | .90 | .78 | .80 |
| 23----- | | | | 1.30 | 1.12 | 1.05 | .90 | .78 | .80 |
| 24----- | | | | 1.30 | 1.12 | 1.05 | .90 | .78 | .80 |
| 25----- | | | | 1.11 | 1.30 | 1.05 | .90 | .78 | .80 |
| 26----- | | | | 1.11 | 1.30 | 1.05 | .90 | .78 | .80 |
| 27----- | | | | 1.11 | 1.30 | 1.05 | .90 | .78 | .80 |
| 28----- | | | | 1.11 | 1.30 | 1.05 | .90 | .78 | .80 |
| 29----- | | | | 1.11 | 1.30 | 1.05 | .90 | .78 | .80 |
| 30----- | .77 | .86 | .91 | 1.13 | 1.33 | 1.09 | .92 | .80 | .70 |
| 31----- | .77 | .87 | .96 | 1.14 | 1.28 | 1.09 | .92 | .80 | .70 |
| Aver- | 0.75 | 0.83 | 0.96 | 1.11 | 1.30 | 1.12 | 0.93 | 0.80 | 0.77 |
| ages | | | | | | | | | |

| MADISON, WIS. | | | | | | | | | |
|---------------|----------|--------|--------|--------|--------|--------|--------|--------|--------|
| | Air mass | | | | | | | | |
| | 4.69 | 3.75 | 2.81 | 1.88 | * | 1.88 | 2.81 | 3.75 | 4.69 |
| July | | | | | | | | | |
| 1----- | S 0.84 | S 0.93 | S 1.05 | S 1.19 | S 1.36 | S 1.13 | S 0.98 | S 0.87 | S 0.77 |
| 2----- | S .74 | S .84 | S .97 | S 1.14 | S 1.32 | S 1.08 | S .93 | S .81 | S .82 |
| 3----- | | | S .92 | S 1.14 | S 1.32 | S 1.08 | S .93 | S .81 | S .82 |
| 4----- | | | M .66 | M .85 | M 1.20 | M .86 | M .70 | M .58 | M .47 |
| 5----- | | | I .48 | I .75 | I 1.22 | I .55 | I .40 | I .32 | I .27 |
| 6----- | S .62 | S .73 | S .83 | S .99 | S 1.22 | S .98 | S .74 | S .62 | S .53 |
| 7----- | M .49 | M .61 | | | S 1.24 | S 1.21 | S 1.10 | S .73 | S .64 |
| 8----- | S .81 | S .90 | S 1.01 | S 1.13 | S 1.26 | S 1.05 | S .80 | S .71 | S .66 |
| 9----- | S .72 | S .82 | S .93 | S 1.11 | S 1.26 | S 1.05 | S .80 | S .71 | S .66 |
| 10----- | M .62 | M .70 | M .84 | M .99 | S 1.26 | S 1.05 | S .80 | S .71 | S .66 |
| 11----- | M .62 | M .73 | M .83 | M 1.07 | S 1.26 | S 1.05 | S .80 | S .71 | S .66 |
| 12----- | I .29 | I .39 | I .57 | I .79 | S 1.26 | S 1.05 | S .80 | S .71 | S .66 |
| 13----- | S .67 | S .76 | S .87 | S 1.30 | S 1.26 | S 1.05 | S .80 | S .71 | S .66 |
| 14----- | | | | | S 1.26 | S 1.05 | S .80 | S .71 | S .66 |
| 15----- | | | | | S 1.26 | S 1.05 | S .80 | S .71 | S .66 |
| 16----- | | | | | S 1.26 | S 1.05 | S .80 | S .71 | S .66 |
| 17----- | | | | | S 1.26 | S 1.05 | S .80 | S .71 | S .66 |
| 18----- | | | | | S 1.26 | S 1.05 | S .80 | S .71 | S .66 |
| 19----- | | | | | S 1.26 | S 1.05 | S .80 | S .71 | S .66 |
| 20----- | | | | | S 1.26 | S 1.05 | S .80 | S .71 | S .66 |
| 21----- | | | | | S 1.26 | S 1.05 | S .80 | S .71 | S .66 |
| 22----- | | | | | S 1.26 | S 1.05 | S .80 | S .71 | S .66 |
| 23----- | | | | | S 1.26 | S 1.05 | S .80 | S .71 | S .66 |
| 24----- | | | | | S 1.26 | S 1.05 | S .80 | S .71 | S .66 |
| 25----- | | | | | S 1.26 | S 1.05 | S .80 | S .71 | S .66 |
| 26----- | | | | | S 1.26 | S 1.05 | S .80 | S .71 | S .66 |
| 27----- | | | | | S 1.26 | S 1.05 | S .80 | S .71 | S .66 |
| 28----- | | | | | S 1.26 | S 1.05 | S .80 | S .71 | S .66 |
| 29----- | | | | | S 1.26 | S 1.05 | S .80 | S .71 | S .66 |
| 30----- | | | | | S 1.26 | S 1.05 | S .80 | S .71 | S .66 |
| 31----- | | | | | S 1.26 | S 1.05 | S .80 | S .71 | S .66 |
| Aver- | 0.64 | 0.74 | 0.83 | 1.03 | 1.26 | 0.95 | 0.84 | 0.69 | 0.59 |
| ages | | | | | | | | | |

| Date | Sun's zenith distance | | | | | | | | |
|--------------|-----------------------|--------|--------|--------|--------|--------|--------|--------|--------|
| | A. M. | | | | | P. M. | | | |
| | 78.7° | 75.7° | 70.7° | 60.0° | * | 60.0° | 70.7° | 75.7° | 78.7° |
| OMAHA, NEBR. | | | | | | | | | |
| | Air mass | | | | | | | | |
| | 4.78 | 3.82 | 2.87 | 1.91 | * | 1.91 | 2.87 | 3.82 | 4.78 |
| July | | | | | | | | | |
| 1----- | HSO.64 | HSO.78 | HSO.94 | HS1.08 | HS1.32 | HS1.16 | HS1.01 | HSO.89 | HSO.52 |
| 2----- | HS .72 | HS .84 | HS .98 | HS1.18 | HS1.32 | HS1.16 | HS1.01 | HS .89 | HS .78 |
| 3----- | HS .78 | HS .92 | HS1.00 | HS1.18 | HS1.32 | HS1.16 | HS1.01 | HS .89 | HS .78 |
| 4----- | HS .70 | HS .80 | .94 | 1.12 | 1.36 | HS1.16 | HS1.01 | HS .89 | HS .78 |
| 5----- | | | | | 1.32 | HS1.16 | HS1.01 | HS .89 | HS .78 |
| 6----- | | | | | 1.32 | HS1.16 | HS1.01 | HS .89 | HS .78 |
| 7----- | | | | | 1.32 | HS1.16 | HS1.01 | HS .89 | HS .78 |
| 8----- | .65 | .76 | .88 | 1.00 | 1.22 | HS1.16 | HS1.01 | HS .89 | HS .78 |
| 9----- | .76 | .87 | .98 | 1.10 | 1.32 | HS1.16 | HS1.01 | HS .89 | HS .78 |
| 10----- | .73 | .82 | .94 | 1.10 | 1.32 | HS1.16 | HS1.01 | HS .89 | HS .78 |
| 11----- | | | | 1.00 | 1.32 | HS1.16 | HS1.01 | HS .89 | HS .78 |
| 12----- | | | | 1.32 | .95 | HS1.16 | HS1.01 | HS .89 | HS .78 |
| 13----- | .84 | .93 | 1.05 | 1.20 | 1.40 | 1.12 | 1.02 | .84 | .70 |
| 14----- | .77 | .86 | .98 | 1.14 | 1.34 | 1.14 | .99 | .84 | .70 |
| 15----- | HS .83 | HS .94 | HS1.10 | 1.25 | 1.70 | .63 | .60 | .56 | |
| 16----- | | | .86 | 1.08 | 1.25 | .70 | .63 | .60 | .56 |
| 17----- | | | | 1.25 | .70 | .63 | .60 | .56 | |
| 18----- | | | | 1.25 | .70 | .63 | .60 | .56 | |
| 19----- | | | | 1.25 | .70 | .63 | .60 | .56 | |
| 20----- | | | | 1.25 | .70 | .63 | .60 | .56 | |
| 21----- | | | | 1.25 | .70 | .63 | .60 | .56 | |
| 22----- | | | | 1.25 | .70 | .63 | .60 | .56 | |
| 23----- | | | | 1.25 | .70 | .63 | .60 | .56 | |
| 24----- | | | | 1.25 | .70 | .63 | .60 | .56 | |
| 25----- | | | | 1.25 | .70 | .63 | .60 | .56 | |
| 26----- | | | | 1.25 | .70 | .63 | .60 | .56 | |
| 27----- | | | | 1.25 | .70 | .63 | .60 | .56 | |
| 28----- | | | | 1.25 | .70 | .63 | .60 | .56 | |
| 29----- | | | | 1.25 | .70 | .63 | .60 | .56 | |
| 30----- | | | | 1.25 | .70 | .63 | .60 | .56 | |
| 31----- | | | | 1.25 | .70 | .63 | .60 | .56 | |
| Aver- | 0.73 | 0.84 | 0.95 | 1.09 | 1.31 | 0.99 | 0.83 | 0.76 | 0.66 |
| ages | | | | | | | | | |

I Intense
M Moderate
S Slight
HM Haze moderate
HS Haze slight
HI Haze intense

Langley is the unit used to denote one gram calorie per square centimeter. An explanation of the formula used in computing the air mass values for each station listed above appears

in the February 1937 issue, Vol. 5, No. 2, page 53, of this publication.

SOLAR RADIATION TOTALS

Daily totals and monthly averages of solar radiation (direct and diffuse) received on a horizontal surface, tabulated in langleys.

JULY 1970

| Station | Day of month | | | | | | | | | | | | Avg. | | | | | | | | | | | | | | | | | | | | |
|-------------------------|--------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | Avg. | |
| ALBUQUERQUE, N.M. | 438 | 797 | 746 | 634 | 769 | 627 | 600 | 683 | 744 | 749 | 797 | 797 | 808 | 806 | 679 | 776 | 681 | 726 | 646 | 780 | 584 | 638 | 639 | 673 | 617 | 745 | 697 | 665 | 722 | 762 | 741 | 699 | |
| AMEX, IOWA | 671 | 587 | 563 | 377 | 668 | 428 | 396 | 654 | 552 | 552 | 614 | 563 | 440 | 556 | 619 | 776 | 632 | 598 | 492 | 155 | 631 | 161 | 599 | 516 | 555 | 436 | 470 | 265 | 497 | 586 | 435 | 529 | |
| ANNETTE, ALASKA | 171 | 350 | 179 | 468 | 178 | 94 | 292 | 464 | 555 | 698 | 513 | 573 | 172 | --- | 416 | 632 | 598 | 492 | 233 | 233 | 566 | 612 | 164 | 418 | 265 | 409 | 676 | 368 | 470 | 533 | 435 | 375 | |
| APALACHICOLA, FLORIDA | 668 | 540 | 562 | 194 | 542 | 654 | 410 | 653 | 530 | 135 | 657 | 324 | 484 | 550 | 506 | 551 | 615 | 620 | 572 | 626 | 619 | 395 | 676 | 216 | 631 | 588 | 413 | 560 | 632 | 468 | 629 | 519 | |
| ARGONNE NAT. LAB. | 412 | 639 | 600 | 384 | 725 | 694 | 526 | 603 | 272 | 558 | 644 | 588 | 602 | 472 | 558 | 663 | 632 | 286 | 176 | 626 | 690 | 462 | 462 | 512 | 489 | 468 | 419 | 637 | 448 | 542 | 439 | 527 | |
| ASTORIA, OREGON | 302 | 606 | 752 | 340 | 285 | 765 | 649 | 781 | 793 | 638 | 764 | 605 | 641 | 758 | 727 | 299 | 740 | 758 | 465 | 423 | 296 | 464 | 699 | 667 | 244 | 217 | 609 | 541 | 544 | 569 | 700 | 563 | |
| ATLANTA, GEORGIA | 613 | 600 | 623 | 502 | 716 | 583 | 584 | 480 | 518 | 658 | 682 | 620 | 471 | 395 | 452 | 503 | 689 | 544 | 551 | 531 | 226 | 105 | 484 | 475 | 537 | 408 | 608 | 394 | 523 | 608 | 415 | 516 | |
| BARRY, ALABAMA | 416 | 418 | 281 | 590 | 596 | 559 | --- | 526 | 625 | 608 | 619 | 369 | 530 | 573 | 646 | 488 | 511 | 502 | 593 | 364 | 528 | 348 | 578 | 521 | 493 | 587 | --- | --- | --- | 416 | 303 | 516 | |
| BETHEL, ALASKA | 711 | 423 | 347 | 411 | 381 | 594 | 76 | 289 | 258 | 284 | 172 | 305 | 199 | 418 | 461 | 586 | 292 | 509 | 147 | 117 | 261 | 237 | 468 | 402 | 432 | 268 | 141 | 137 | 577 | 251 | 269 | 324 | |
| BISMARCK, N.DAK. | 801 | 689 | 600 | 729 | 717 | --- | 779 | 789 | 729 | 744 | 721 | 753 | 643 | 530 | 778 | 786 | 592 | 760 | 664 | 783 | 741 | 436 | 123 | 713 | 737 | 479 | 733 | 486 | 721 | 528 | 715 | 670 | |
| BLUE HILL, MASS. | 568 | 214 | 362 | 260 | 589 | 595 | 726 | 646 | 623 | 392 | 398 | 590 | 687 | 511 | 422 | 124 | 707 | 640 | 599 | 236 | 611 | 405 | 607 | 636 | 617 | 246 | 600 | 547 | 563 | 475 | 536 | 513 | |
| BOISE, IDAHO | 704 | 774 | 769 | 593 | 678 | 773 | 783 | 715 | 507 | 413 | 757 | 711 | 791 | 772 | 730 | 599 | 753 | 642 | 750 | 621 | 730 | 765 | 765 | 712 | 676 | 670 | 594 | 453 | 720 | 730 | 732 | 684 | |
| BROWN INGS., SOUTH DAK. | 530 | 663 | 499 | 581 | 657 | 599 | 469 | 688 | 436 | 641 | 621 | 401 | 242 | 425 | 636 | 626 | 586 | 577 | 231 | 614 | 666 | 599 | 447 | 607 | 598 | 585 | 740 | 530 | 577 | 478 | 628 | 596 | |
| BROWNSVILLE, TEXAS | 521 | 633 | 721 | 645 | 679 | 729 | 758 | 759 | 767 | 773 | 731 | 715 | 608 | 683 | 154 | 223 | --- | 713 | 718 | 769 | 628 | 646 | 701 | 642 | 436 | 409 | 538 | 413 | 575 | 584 | 620 | 642 | |
| BURLINGTON, VERMONT | 438 | 164 | 520 | 328 | 264 | 663 | 582 | 101 | 508 | 332 | 145 | 585 | 604 | 374 | 269 | 237 | 628 | 365 | 559 | 443 | 230 | 582 | 598 | 594 | 448 | 525 | 550 | 374 | 448 | 487 | 230 | 429 | |
| CAPE MATTHEWS, N.C. | 623 | 330 | 388 | 600 | 406 | 450 | 609 | 676 | --- | 605 | 560 | 515 | 637 | 526 | 533 | 561 | 664 | 539 | 579 | 654 | 193 | 482 | 469 | 277 | 572 | 651 | 500 | 561 | 565 | 326 | 490 | 529 | |
| CARIBOU, MAINE | 684 | 510 | 623 | 100 | 504 | 488 | 627 | 569 | 662 | 451 | 112 | 657 | 762 | 737 | 210 | 314 | 472 | 514 | 579 | 624 | 264 | 405 | 696 | 661 | 708 | 634 | 606 | 536 | 554 | 688 | 475 | 533 | |
| CHARLESTON, S.C. | 534 | 456 | 460 | 654 | 490 | 692 | 468 | 576 | 505 | 578 | 585 | 691 | 431 | 458 | 529 | 687 | 467 | 346 | 533 | 683 | 665 | 362 | 541 | 356 | 567 | 512 | 478 | 588 | 503 | 517 | 556 | 534 | |
| CLEVELAND, OHIO | 490 | 548 | 510 | 476 | 476 | 744 | 721 | 257 | 399 | 323 | 554 | 662 | 497 | 924 | 504 | 505 | 630 | 532 | 243 | 83 | 731 | 569 | 492 | 543 | 499 | 538 | 410 | 487 | 454 | 466 | 488 | 500 | |
| COLUMBIA, MISSOURI | 695 | 691 | 638 | 490 | 746 | 684 | 564 | 728 | 726 | 530 | 618 | 661 | 578 | 688 | 536 | 722 | 692 | 319 | 594 | 464 | 734 | 731 | 504 | 643 | 650 | 634 | 521 | 458 | 663 | 527 | 459 | 615 | |
| DODGE CITY, KANSAS | 693 | 742 | 753 | 367 | 750 | --- | 680 | 157 | 689 | 706 | 591 | 681 | 656 | 713 | 795 | 586 | 704 | 678 | 614 | 281 | 769 | 732 | 583 | 407 | 628 | 657 | 598 | 608 | 640 | 694 | 492 | 633 | |
| E. LANGSHIRE, MICHIGAN | 588 | 459 | 566 | 327 | 764 | 739 | 692 | 275 | 286 | 131 | 654 | 674 | 571 | 478 | 589 | 703 | 711 | 290 | 134 | 201 | --- | 829 | 244 | 474 | 593 | 630 | 595 | 402 | 476 | 445 | 565 | 500 | |
| EL CENTRO, CALIF., NCP | 690 | 468 | 680 | 641 | 655 | 612 | 432 | 541 | 774 | 678 | 669 | 693 | 659 | 667 | 564 | 613 | 622 | 606 | 510 | 425 | 653 | 678 | 669 | 655 | 651 | 678 | 580 | 638 | 659 | 671 | 617 | | |
| EL PASO, TEXAS | 555 | 759 | 744 | 748 | 745 | 754 | 706 | 737 | 711 | 735 | 729 | 613 | 634 | 687 | 614 | 712 | 716 | 735 | 680 | 576 | 554 | 634 | 617 | 656 | 458 | 641 | 618 | 431 | 629 | 597 | 498 | 656 | |
| ELY, NEVADA | 811 | --- | 741 | --- | 486 | 487 | 622 | 575 | 389 | 599 | 708 | 681 | 760 | 645 | 666 | 628 | 611 | 538 | 605 | 308 | 486 | 490 | 597 | 698 | 638 | 413 | 538 | 723 | 640 | 567 | 726 | 592 | |
| EMERY, NEWPORT, R.I. | 622 | 276 | 379 | 231 | 490 | 583 | 706 | 651 | 432 | 347 | 481 | 583 | 541 | 471 | 426 | 76 | 692 | 646 | 586 | --- | --- | --- | --- | 610 | 669 | 568 | 363 | 502 | 485 | 324 | 356 | 486 | 485 |
| FAIRBANKS, ALASKA | 658 | 624 | 419 | 536 | 596 | 622 | 501 | 284 | 526 | 438 | 489 | 540 | 567 | 537 | 312 | 389 | 605 | 166 | 344 | 532 | 593 | 282 | 514 | 561 | 544 | 636 | 595 | 224 | 325 | 199 | 385 | 465 | |
| FORT WORTH, TEXAS | 665 | 703 | 707 | 526 | 735 | 530 | 692 | 655 | 358 | 554 | 376 | 342 | 540 | 602 | 654 | 634 | 706 | 619 | 689 | 621 | 343 | 589 | 576 | 414 | 661 | 552 | 482 | 416 | 710 | 196 | 700 | 603 | |
| FRESNO, CALIFORNIA | 761 | 743 | 623 | 683 | 688 | 739 | 740 | 698 | 243 | 683 | 723 | 646 | 725 | 701 | 728 | 787 | 733 | 696 | 700 | 686 | 720 | 734 | 717 | 707 | 701 | 704 | 692 | 709 | 717 | 732 | 740 | 694 | |
| GAINESVILLE, FLORIDA | 645 | 526 | 404 | 608 | 237 | 613 | 640 | 523 | 494 | 393 | 561 | 237 | 440 | 468 | 636 | 622 | 670 | 636 | 390 | 362 | 331 | 548 | 643 | 568 | 129 | 568 | 169 | 487 | 650 | 614 | 199 | 601 | |
| GLASGOW, MONTANA | 780 | 652 | 765 | 689 | 690 | 671 | 741 | 730 | 642 | 557 | 586 | 705 | 505 | 625 | 739 | 726 | 581 | 723 | 449 | 716 | 479 | 475 | 196 | 671 | 601 | 697 | 423 | 396 | 596 | 608 | 697 | 616 | |
| GRAND JUNCTION, COLO. | 699 | 690 | 679 | 599 | 441 | 626 | 618 | 608 | 340 | 591 | 644 | 641 | 653 | 654 | 658 | 553 | 548 | 592 | 574 | 642 | 432 | 408 | 452 | 506 | 478 | 474 | 511 | 581 | --- | 541 | 611 | 574 | |
| GREAT FALLS, MONTANA | 783 | 753 | 794 | 645 | 654 | 799 | 781 | 777 | 677 | 272 | 672 | 626 | 340 | 791 | 786 | 672 | 732 | 759 | 731 | 362 | 440 | 100 | 297 | --- | 317 | 564 | 443 | 647 | 623 | 674 | 745 | 640 | |
| GREENSBORO, N.C. | 491 | 417 | 445 | 504 | 427 | 550 | 512 | 439 | 304 | 278 | 466 | 540 | 258 | 462 | 490 | 528 | 463 | 492 | 314 | 440 | 140 | 100 | 297 | 437 | 482 | 360 | 278 | 338 | 525 | 423 | 461 | 416 | |
| INDIANAPOLIS, INDIANA | 588 | 607 | 513 | 390 | 423 | 771 | 603 | 432 | 250 | 446 | 699 | 544 | 555 | 512 | 425 | 692 | 591 | 535 | 214 | 315 | 669 | 719 | 70 | 589 | 568 | 169 | 487 | 650 | 614 | 199 | 601 | 498 | |
| INYOKERN, CALIFORNIA | 718 | 674 | 448 | 539 | 611 | 678 | 671 | 330 | 454 | 382 | 677 | 690 | 700 | 609 | 660 | 688 | 654 | 632 | 650 | 598 | 634 | 704 | 701 | 681 | 661 | 617 | 671 | 599 | 568 | 690 | 693 | 622 | |
| LAKE CHARLES, LA. | 663 | 621 | 573 | 415 | --- | --- | --- | --- | --- | --- | 225 | --- | --- | 119 | --- | --- | 471 | 567 | --- | --- | 644 | 251 | 401 | 568 | 587 | 202 | 452 | 427 | 676 | 577 | 640 | 640 | |
| LAKELAND, FLORIDA | 668 | 632 | 491 | 541 | 544 | 413 | 442 | 547 | 412 | 507 | 502 | 469 | 516 | 572 | --- | --- | 445 | --- | --- | --- | | | | | | | | | | | | | |

SOLAR RADIATION TOTALS

Daily totals and monthly averages of solar radiation (direct and diffuse) received on a horizontal surface, tabulated in langleyes.

MAY 1970

| Station | Day of month | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------|--------------|-----|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | Avg. | |
| OKLAHOMA CITY OKLA. | 666 | 668 | 650 | 682 | 663 | 630 | 584 | 305 | 260 | 528 | 443 | 392 | 650 | 640 | 535 | 475 | 626 | 632 | 498 | 110 | 412 | 694 | 678 | 632 | 494 | 631 | 597 | 302 | 612 | 424 | 598 | 542 | |
| PAGE ARIZONA | 713* | 717 | 644 | 673 | 499 | 489 | 684 | 613 | 557 | 610 | 779 | 844 | 844 | 736 | 746 | 511 | 638 | 585 | 650 | 595 | 297 | 712 | 806 | 826 | 725 | 528 | 634 | 491 | 517 | 647 | 19 | 639 | |
| PALMER ARIZONA | 474 | 230 | 479 | 333 | 560 | 326 | 609 | 383 | 317 | 247 | 131 | 427 | 370 | 347 | 303 | 511 | 362 | 163 | 213 | 409 | 177 | 405 | 565 | 580 | 577 | 578 | 434 | 181 | 132 | 121 | 92 | 348 | |
| PHOENIX ARIZONA | --- | --- | --- | --- | --- | --- | --- | --- | 619 | 607 | 701 | 668 | 687 | --- | 663 | 628 | 664 | 664 | 440 | 621 | 540 | 611 | 666 | 603 | 647 | 667 | 665 | 665 | 651 | 613 | 405 | 632 | |
| PORTLAND MAINE | 659 | 108 | 404 | 198 | 646 | 601 | 674 | 663 | 623 | 574 | 418 | 593 | 593 | 689 | 253 | 27 | 599 | 567 | 662 | 254 | 606 | 624 | 669 | 636 | 608 | 475 | 581 | 536 | 459 | 259 | 481 | 510 | |
| PROSSER WASHINGTON | 558 | 701 | 685 | 687 | 750 | 744 | 748 | 668 | 687 | 716 | 507 | 558 | 696 | 735 | 489 | 684 | 711 | --- | --- | 698 | 668 | 680 | 687 | 637 | --- | --- | 560 | 652 | 634 | 692 | 632 | 663 | |
| RAPID CITY S.DAK. | 706* | 711 | 732* | 718* | --- | --- | --- | --- | 672 | 524 | 651 | 439 | 664 | 704 | 714 | 676 | 563 | 413 | 245 | 545 | 663 | 345 | 419 | 649 | 611 | 550 | 597 | 637 | 621 | 461 | 635 | 587* | |
| RENO NEVADA | 680 | 666 | 530 | 545 | 611 | 687 | 639 | 659 | 297 | 508 | 584 | 626 | 660 | 655 | 584 | 676 | 668 | 514 | 612 | 517 | 659 | 656 | 635 | 643 | 647 | 647 | 598 | 570 | 657 | 633 | 639 | 607 | |
| RICHLAND 25 NW WASH. | 490 | 712 | 683 | 689 | 733 | 719 | 704 | 679 | 691 | 668 | 595 | 458 | 673 | 704 | 550 | 663 | 685 | 679 | 644 | 650 | 611 | 610 | 632 | 601 | 299 | 589 | 581 | 519 | 629 | 653 | 613 | 629 | |
| RIVERSIDE CALIFORNIA | 741 | 604 | 586 | 628 | 718 | 719 | 697 | 602 | 703 | 681 | 688 | 730 | 734 | 697 | 699 | 674 | 660 | 641 | 707 | 634 | 514 | 724 | 715 | 687 | 671 | 716 | 750 | 631 | 631 | 765 | 750 | 681 | |
| RUSTON LOUISIANA | 606 | 619 | 617 | 509 | 688 | 672 | 583 | 251 | 610 | 464 | 95 | 460 | 573 | 546 | 470 | 294 | 278 | 629 | 607 | 527 | 77 | 341 | 384 | 588 | 425 | 239 | 326 | 568 | 617 | 555 | 590 | 478 | |
| SAINT CLOUD MINN. | 599 | 688 | 329 | 687 | 689 | 653 | 587 | 655 | 622 | 619 | 494 | 311 | 407 | 428 | 625 | 658 | 629 | 566 | 315 | 654 | 650 | 622 | 633 | 606 | 618 | 578 | 579 | 470 | 382 | 604 | 572 | 566 | |
| SALT LAKE CITY | 823 | 835 | 807 | 797 | 614 | 788 | 783 | --- | --- | --- | 722 | 745 | 762 | --- | 728 | 518 | 704 | 673 | 703 | 698 | 393 | 462 | 738 | 528 | 652 | 614 | 422 | 534 | 484 | 510 | 499 | 662 | |
| SAN ANTONIO TEXAS | 663 | 662 | 713 | 658 | 581 | 670 | 710 | 648 | 704 | 609 | 682 | 527 | 486 | 356 | 443 | 312 | 543 | 699 | 727 | 704 | 463 | 458 | 590 | 593 | 457 | 608 | 569 | 547 | 613 | 605 | 601 | 588 | |
| SANTA MARIA CALIF. | 743 | 763 | 712 | 708 | 685 | 716 | 645 | 667 | 638 | 621 | 574 | 597 | 665 | 545 | 609 | 618 | 712 | 698 | 682 | 702 | 705 | 708 | 633 | 605 | 561 | 651 | 670 | 687 | 708 | 710 | 696 | 670 | |
| SAULT STE MARIE MICH. | 269 | 420 | 440 | 259 | 787 | 698 | 406 | 133 | 568 | 684 | 618 | 702 | 147 | 157 | 433 | 719 | 713 | 679 | 46 | 575 | 730 | 708 | 661 | 263 | 635 | 631 | 389 | 653 | 510 | 314 | 452 | 496 | |
| SEATTLE TACOMA WASH. | 333 | 701 | 692 | 746 | 572 | 618 | 728 | 737 | 706 | 723 | 606 | 644 | 718 | 699 | 556 | 559 | 693 | 650 | 455 | 332 | 661 | 806 | 310 | 127 | 144 | 452 | 559 | 216 | 560 | 645 | 569 | | |
| SPOKANE WASHINGTON | 550 | 692 | 710 | 714 | 757 | 733 | 696 | 679 | 687 | --- | 625 | 272 | --- | 713 | 709 | 476 | 678 | 674 | 675 | 691 | 681 | 594 | 673 | 623 | 294 | 544 | 544 | 488 | 697 | 651 | 684 | 617 | |
| STERLING VIRGINIA | 626 | 263 | 471 | 516 | 424 | 646 | 610 | 520 | 153 | 297 | 432 | 590 | 613 | 369 | 457 | 555 | 655 | 608 | 581 | 489 | 602 | 390 | 123 | 318 | 514 | 478 | 468 | 548 | 498 | 404 | 530 | 479 | |
| SWAN ISLAND N.I. | 565 | 522 | 495 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| TAMPA FLORIDA | 713 | 471 | 527 | 602 | 624 | 693 | 437 | 523 | 589 | 565 | 494 | 461 | 509 | 566 | 592 | 553 | 558 | 651 | 630 | 226 | 266 | 661 | 401 | 562 | 598 | 455 | 517 | 549 | 409 | 511 | 569 | 532 | |
| TUCSON ARIZONA | 236 | 541 | 693 | 568 | 689 | 629 | 707 | 563 | 580 | 599 | 691 | 664 | 646 | 595 | 662 | 644 | 663 | 664 | 661 | 574 | 347 | 602 | 476 | 522 | 658 | 611 | 604 | 496 | 603 | 640 | 530 | 592 | |
| LAKE ISLAND PACIFIC | 607 | 578 | 642 | 530 | 643 | 660 | 679 | 652 | 506 | 640 | 587 | 617 | 502 | 319 | 174 | 241 | 227 | 200 | 285 | 265 | 516 | 374 | 656 | 623 | 621 | 698 | 598 | 460 | 641 | 566 | 470 | 514 | |

Note: Langley is the unit used to denote one gram calorie per square centimeter.

Values with an asterisk are interpolated.

The solar radiation data in this table form the basis for the analyses in Charts VII, A, and B of this publication. The analyses include adjustments required to bring station records to approximately the same level of calibration.

NET RADIATION

JULY 1970

Net radiation in langbeys per day (8 a.m. to 8 a.m.) at Palmer, Alaska

| Date | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | Ave. |
|----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|-----|-----|-----|-----|-----|-----|----|-----|-----|----|-----|-----|-----|-----|-----|-----|----|----|----|----|------|
| Langbeys | 285 | 221 | 247 | 121 | 289 | 181 | 314 | 202 | 175 | 119 | 41 | 198 | 165 | 157 | 134 | 253 | 178 | 60 | 108 | 187 | 58 | 225 | 177 | 286 | 287 | 271 | 232 | 97 | 60 | 43 | 28 | 170 |

The measurement is made with a CSIRO FINK net exchange radiometer over a plot of sea. The value represents the total incoming minus the total outgoing radiation of all wave lengths.

These data are of an experimental nature and are published as received from the Palmer IDP Station. The instrument with which they were measured has not been checked by the NOAA, National Weather Service.

SOLAR ULTRA-VIOLET RADIATION DATA

Daily totals and monthly average (0.3900 Å) at Ames, Iowa

| Date | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | Ave. |
|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|-------|-------|-------|
| Langbeys | 19.53 | 18.23 | 19.53 | 13.73 | 21.78 | 14.08 | 13.37 | 21.43 | 17.52 | 22.29 | 19.29 | 17.87 | 14.50 | 18.35 | 20.24 | 20.24 | 19.29 | 15.28 | 6.27 | 19.80 | 26.30 | 20.36 | 18.82 | 16.57 | 17.87 | 14.91 | 15.86 | 9.35 | 16.43 | 18.79 | 14.29 | 17.35 |

These data are from an U - V Eppley total ultra violet sensor and Spectromax II (Leeds Northrup) Recorder. It is at the same location (Astronomy Building, Iowa State University, Ames) as the published total solar radiation instrumentation. This instrument has not been checked by the NOAA, National Weather Service.

TOTAL OZONE DATA

These provisional ozone data are obtained from measurements made with a Dobson ozone spectrophotometer, and are applicable approximately to local apparent noon. The data are presented in the code ASD 2 2 defined in the August 1962 WMO circular entitled "PUBLICATION OF DATA FOR METEOROLOGICAL RESEARCH, WORLD OZONE DATA."

Units: Milli-atmo-cms.

| Station | Day of month | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Mean | | |
|---------------------|--------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|-----|-----|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | | | |
| BEDFORD, MASS. | 00340 | 00350 | --- | --- | --- | 00363 | 00364 | 00375 | 00366 | 00350 | --- | --- | 00377 | 00370 | 00390 | 00370 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 366 | |
| BISMARCK, N. D. | 00384 | 00368 | 00349 | 00329 | 00331 | 00339 | 00345 | 00336 | 00340 | 00339 | 00338 | 00329 | 00346 | 00365 | 00359 | 00334 | 00373 | 00306 | 00334 | 00344 | 00341 | 00348 | 00326 | 00344 | 00341 | 00321 | 00319 | 00327 | 00328 | 00324 | 00331 | 358 | | |
| BOULDER, COLO. | 00321 | 00334 | --- | --- | --- | 00295 | 00402 | 00336 | 00322 | 00315 | --- | --- | 00315 | 004315 | 00350 | 00327 | 00326 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 326 | |
| CARIBOU, MAINE | 00367 | 00345 | --- | --- | 00343 | 00366 | 00314 | 00239 | 00372 | 00367 | --- | --- | 00380 | 00413 | 00372 | 00364 | 00361 | 00395 | 00330 | 00367 | 00364 | 00367 | 00377 | 00340 | 00330 | 00347 | 00332 | 00335 | 00338 | 00338 | 00338 | 326 | | |
| FAIRBANKS, ALASKA | 00373 | 00349 | 00364 | 00304 | 00319 | 00371 | 00371 | --- | 00364 | 00366 | 00349 | 00343 | 00371 | 00363 | 00372 | 00361 | 00367 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 353 | |
| GREEN BAY, WIS. | --- | --- | --- | --- | --- | --- | --- | 00414 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 347 | |
| HUAKA AYO, PERU | 00266 | 00261 | 00277 | 00272 | 00274 | 00269 | 00267 | 00263 | 00269 | 00258 | 00256 | 00259 | 00259 | 00259 | 00269 | 00266 | 00264 | 00255 | 00261 | 00267 | 00270 | 00263 | 00261 | 00259 | 00270 | 00270 | 00267 | 00270 | 00263 | 00272 | 00272 | 265 | | |
| KANAWA LOA, HAWAII | 00293 | 00294 | --- | --- | --- | 00297 | --- | 00292 | --- | --- | --- | --- | 00279 | --- | 00281 | --- | 00297 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 288 |
| KENTVILLE, TENN. | --- | --- | --- | --- | --- | --- | 00339 | 00343 | 00364 | 00356 | 00358 | --- | --- | --- | --- | 00359 | 00383 | 00375 | 00360 | 00360 | 00363 | 00362 | 00346 | 00355 | 00358 | 00358 | 00354 | 00353 | 00377 | 00382 | 00402 | 364 | | |
| WALLOPS ISLAND, VA. | 00324 | --- | --- | --- | --- | --- | 00368 | 00357 | 00340 | 00338 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 341 |

The spectrophotometer measures the total amount of ozone in the atmosphere, i.e., the amount contained in a vertical column of air extending from ground level to the top of the atmosphere in the vicinity of the station. The amount of ozone in this column (coded ASD 2 2) is expressed in terms of a thickness of a layer it would occupy at standard temperature and pressure, e.g., 350 milli-atmo-cm ozone implies an ozone layer 0.350 centimeter thick. The code ASD 2 2 designates the type of measurement made.

DESCRIPTION OF CHARTS

CHART I. A. NORMAL DAILY AVERAGE TEMPERATURE (°F. 1931-60) FOR MONTH. B. TEMPERATURE DEPARTURE FROM 30-YEAR MEAN (°F. 1931-60) FOR MONTH. Chart I-A is reproduced from Environmental Data Service Publication "Climatic Maps of the United States". Chart I-B is a reproduction of monthly chart appearing in "Weekly Weather and Crop Bulletin", a publication of Environmental Data Service.

CHART II. TOTAL PRECIPITATION. Chart II is a reproduction of monthly chart appearing in "Weekly Weather and Crop Bulletin".

CHART III. PERCENTAGE OF NORMAL PRECIPITATION. Chart III is a reproduction of monthly chart appearing in "Weekly Weather and Crop Bulletin".

CHART IV. TOTAL SNOWFALL. CHART V. A. PERCENTAGE OF MEAN MONTHLY SNOWFALL. B. DEPTH OF SNOW ON GROUND. Chart IV gives the total depth in inches of unmelted snowfall as reported during the month by Weather Bureau and selected cooperative stations. This is converted in Chart V-A into a percentage of the mean monthly total amount computed for each Weather Bureau station having at least 10 years of record. The depth of snow on ground is that reported by both Weather Bureau and selected cooperative stations as of 7:00 a.m. Eastern Standard Time on the Monday nearest the end of the month. This is reported only for the months December through March. The snowfall charts are presented each month November through April.

Isolines for Charts I, II, III, IV, and V, are drawn through points of approximately equal value. Caution should be used in interpolating on these charts, particularly in mountainous areas.

CHART VI. A. PERCENTAGE OF POSSIBLE SUNSHINE. B. PERCENTAGE OF MEAN MONTHLY SUNSHINE. Chart VI-A shows the amount of sunshine received in terms of percentage of the total hours of sunshine possible during the month. In Chart VI-B this is shown as a percentage of the mean number of hours of sunshine received. Means are computed for Weather Bureau stations having at least 10 years of record.

CHART VII. A. AVERAGE DAILY VALUES OF SOLAR RADIATION LANGLEYS. B. PERCENTAGE OF MEAN DAILY SOLAR RADIATION. Shown on Chart VII-A are the monthly averages of daily total solar radiation, both direct and diffuse, in langleys (gm. cal. cm.⁻²) for all Weather Bureau and selected cooperative stations which record this element. The analyses include adjustments required to bring station records to approximately the same level of calibration. Adjusted numbers are in parentheses. Chart VII-B shows the percentages of the mean based on at least 5 years of record during the period 1950-1960, and corrected to the International

Pyrheliometer Scale of 1956.

CHART VIII. TRACKS OF CENTERS OF ANTICYCLONES AT SEA LEVEL.

CHART IX. TRACKS OF CENTERS OF CYCLONES AT SEA LEVEL. Centers which can be identified for 24 hours or more are tracked in these charts. Semi-permanent features such as the Great Basin and Pacific Highs and Colorado and Mexico Lows are not shown. The 7:00 a.m. EST positions are shown by open circles, with the intermediate positions at 6-hour intervals shown by solid dots. The date is given above the circle and the central pressure to whole millibars below. A dashed track indicates a regeneration rather than actual movement to the next position. Solid squares indicate position of stationary center for period shown beside it.

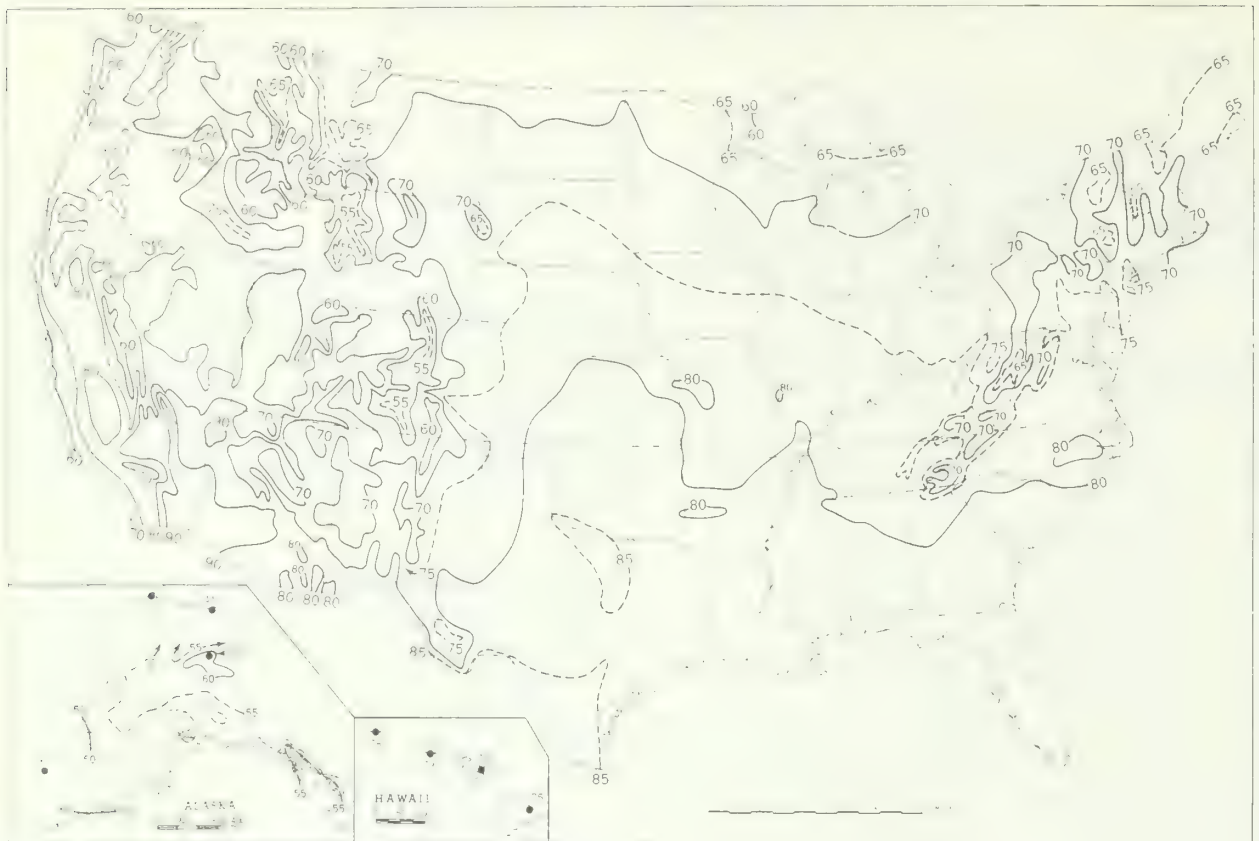
CHART X. AVERAGE SEA LEVEL PRESSURE (mb.) AND RESULTANT SURFACE WIND. The average monthly sea level pressures are obtained from eight daily 3-hourly observations reported at Weather Bureau Stations. Resultant surface wind directions (to 36 points of the compass) for the month are shown by arrows. Resultant speeds are in miles per hour and are indicated by the length of arrow shafts. Constancy ratios (resultant surface wind divided by average surface wind for month) are shown to two decimal places. The inset shows the departure of the average pressure based on 30-year normals for first-order Weather Bureau Stations, other stations having at least 10 years of record; and for each 10° intersection in a diamond grid over the oceans.

CHARTS XI-XVI. AVERAGE HEIGHT, TEMPERATURE, AND RESULTANT WINDS, 850, 700, 500, 300, 200, and 100 mb. Height is given in geopotential meters and temperature in degrees Celsius. These are the averages of the 1200 GMT radiosonde reports. Wind speeds are given in meters per second; flag represents 25 m.p.s., full feather 5 m.p.s., and half feather 2 1/2 m.p.s. Directions are shown to 360° of the compass. Winds are based on rawins at the indicated pressure surface and at 1200 GMT.

CHART XVII. A. 50-MB. RESULTANT WINDS. B. 30-MB. RESULTANT WINDS. Wind speed (isotachs) in meters per second. Arrows show resultant wind direction. Winds are based on rawins at the indicated pressure surface and at 1200 GMT.

Exact values of most of these charted elements for Weather Bureau stations are printed each month in tabular form in CLIMATOLOGICAL DATA, NATIONAL SUMMARY. Extreme values of temperature and precipitation for each state are included in the tables, Condensed Climatological Summary. Annual averages for surface elements are presented in the CDNS Annual Issue each year.

Chart 1. A. Normal Daily Average Temperature ($^{\circ}\text{F}$ 1931-60), July.



B. Temperature Departure from 30 - Year Mean ($^{\circ}\text{F}$ 1931-60), July 1970.

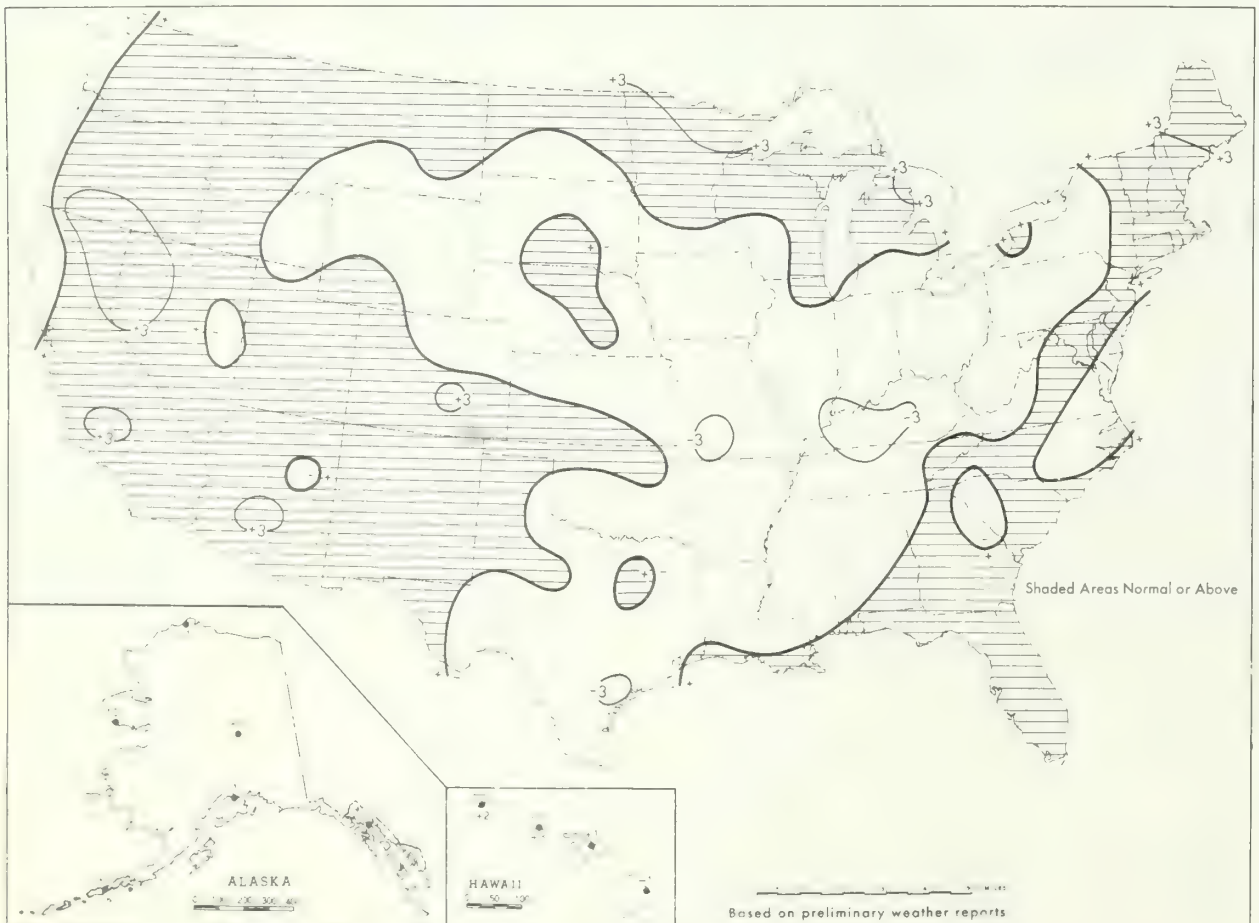


Chart II. Total Precipitation (Inches), July 1970.

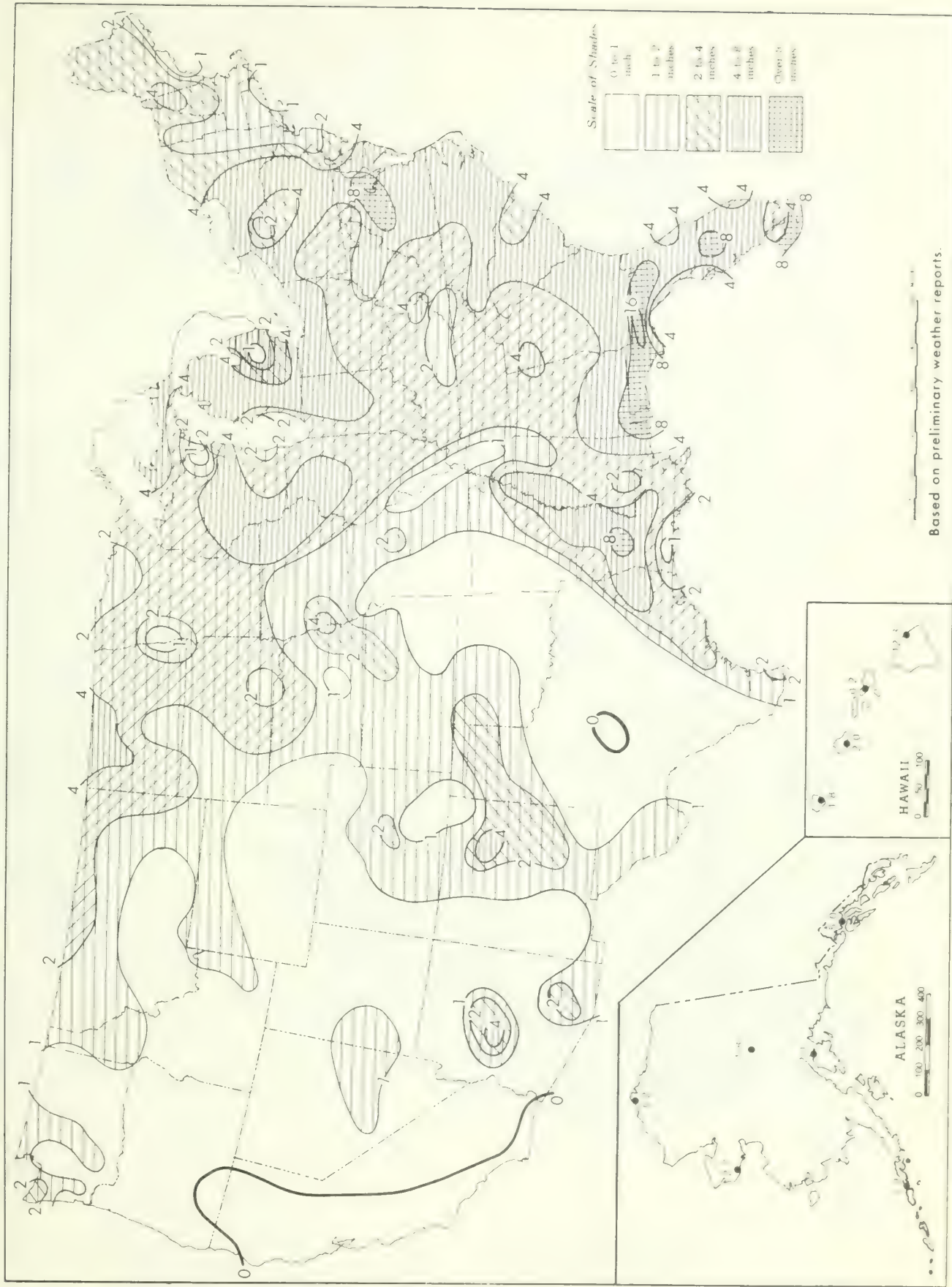
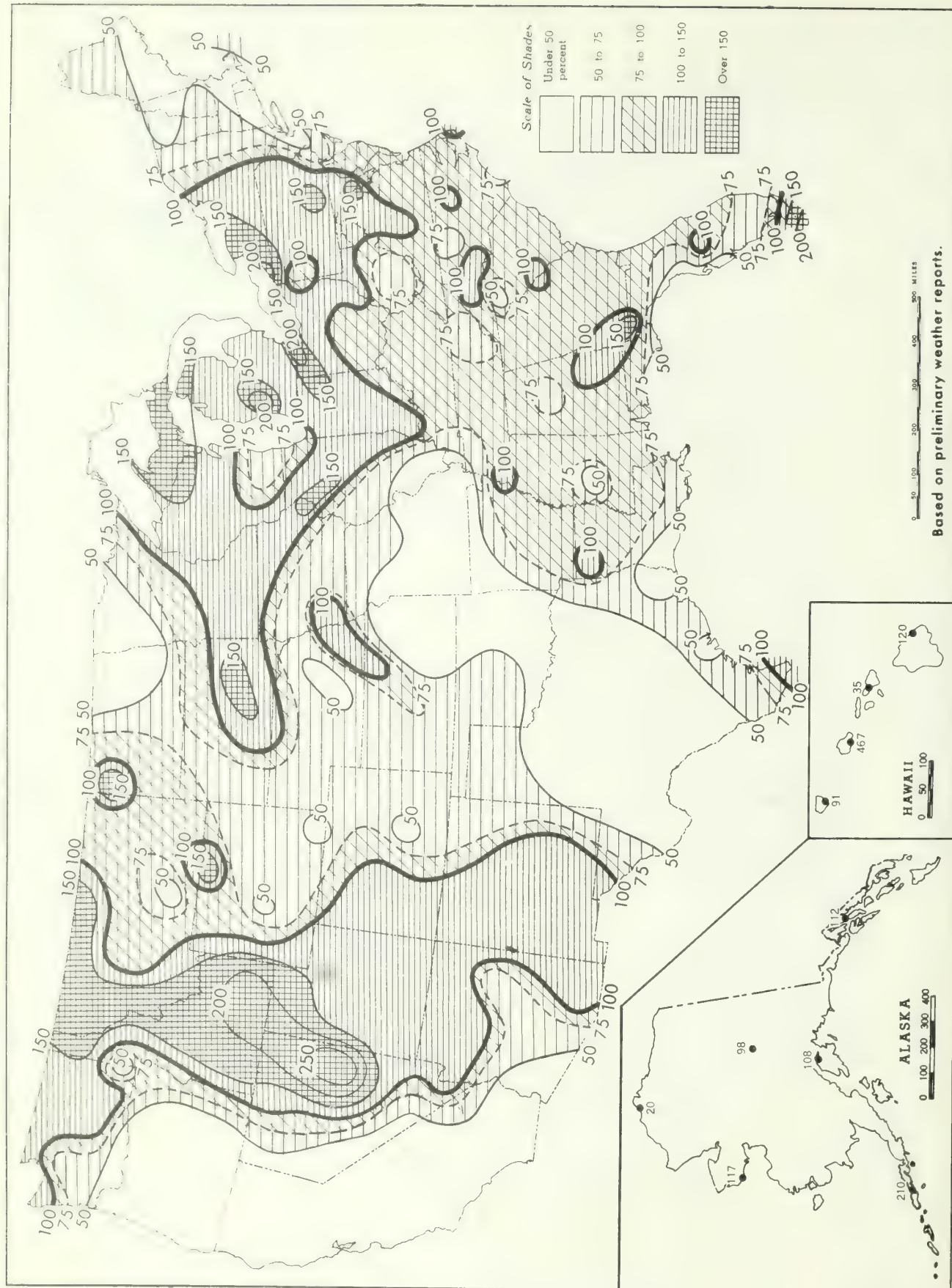
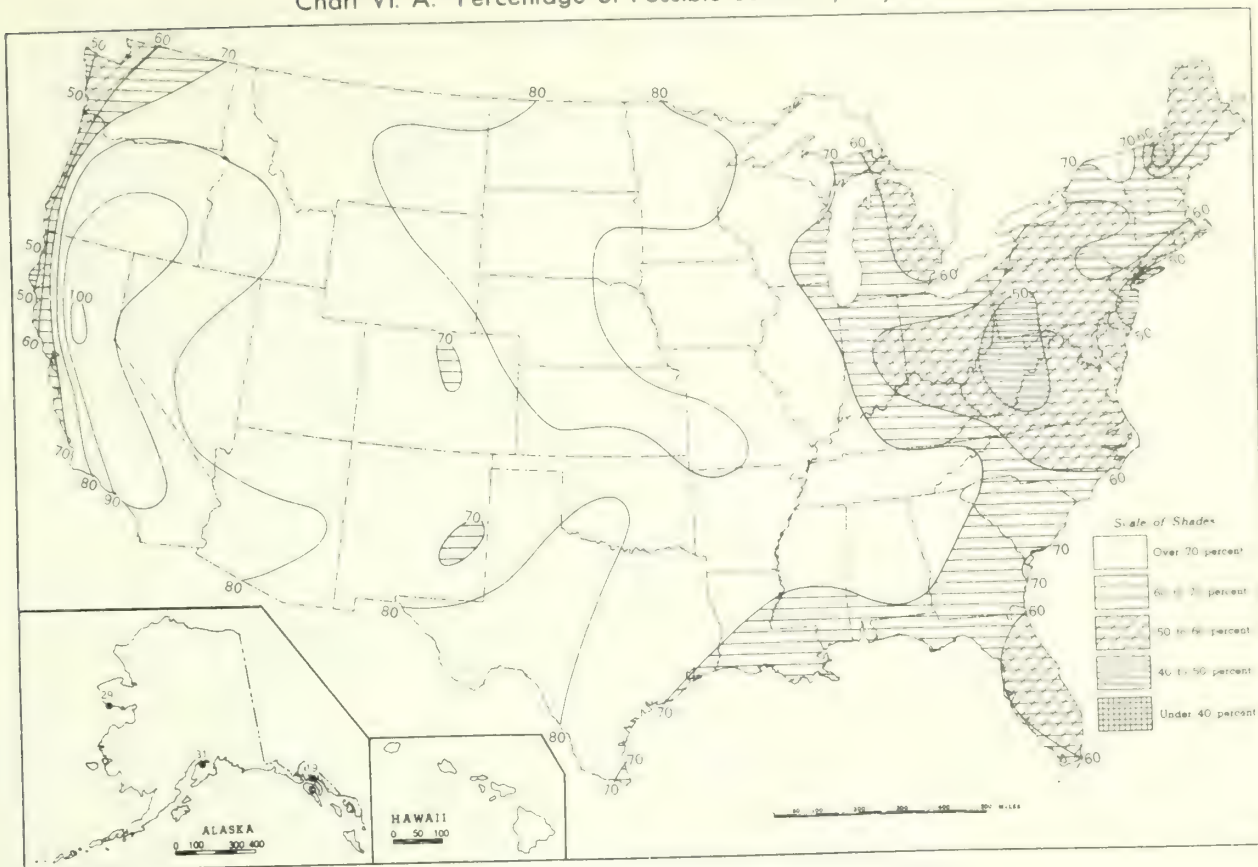
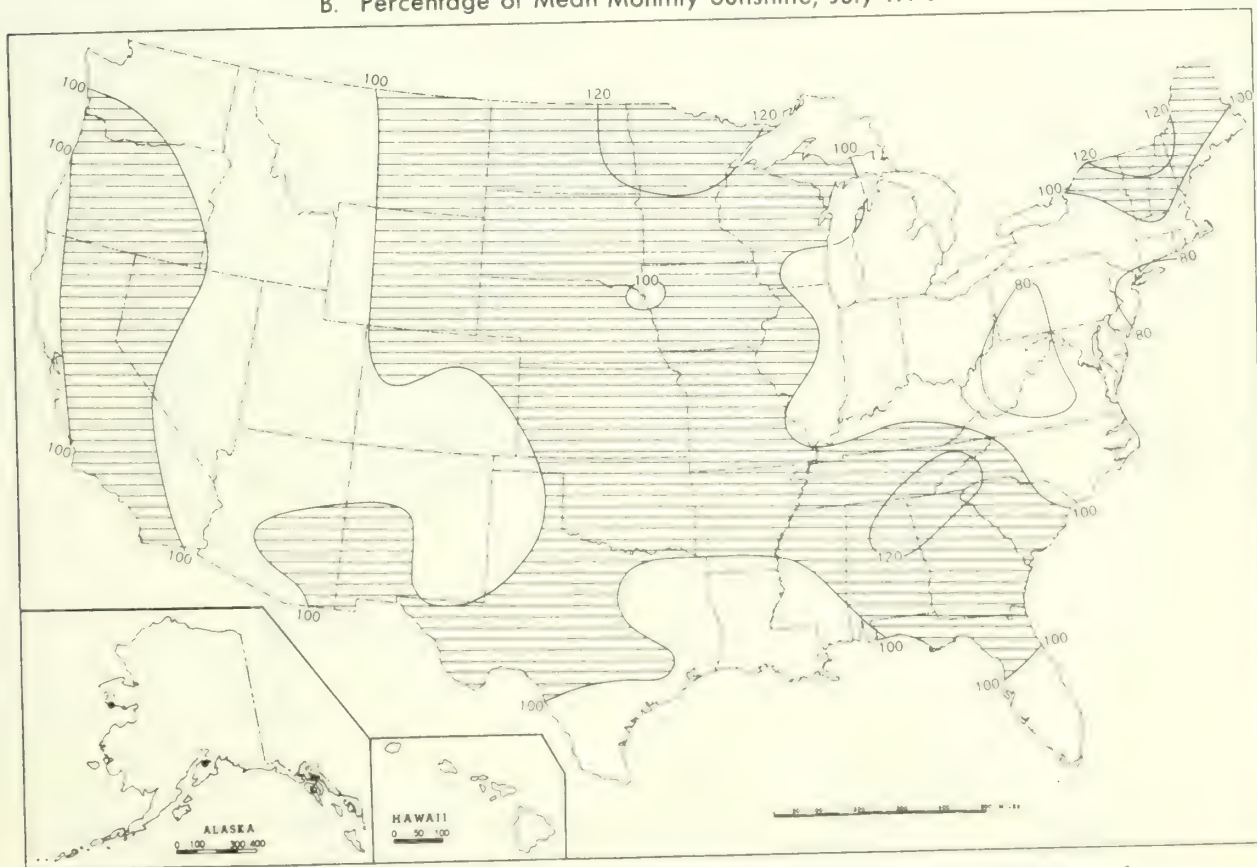


Chart III. Percentage of Normal Precipitation, July 1970.



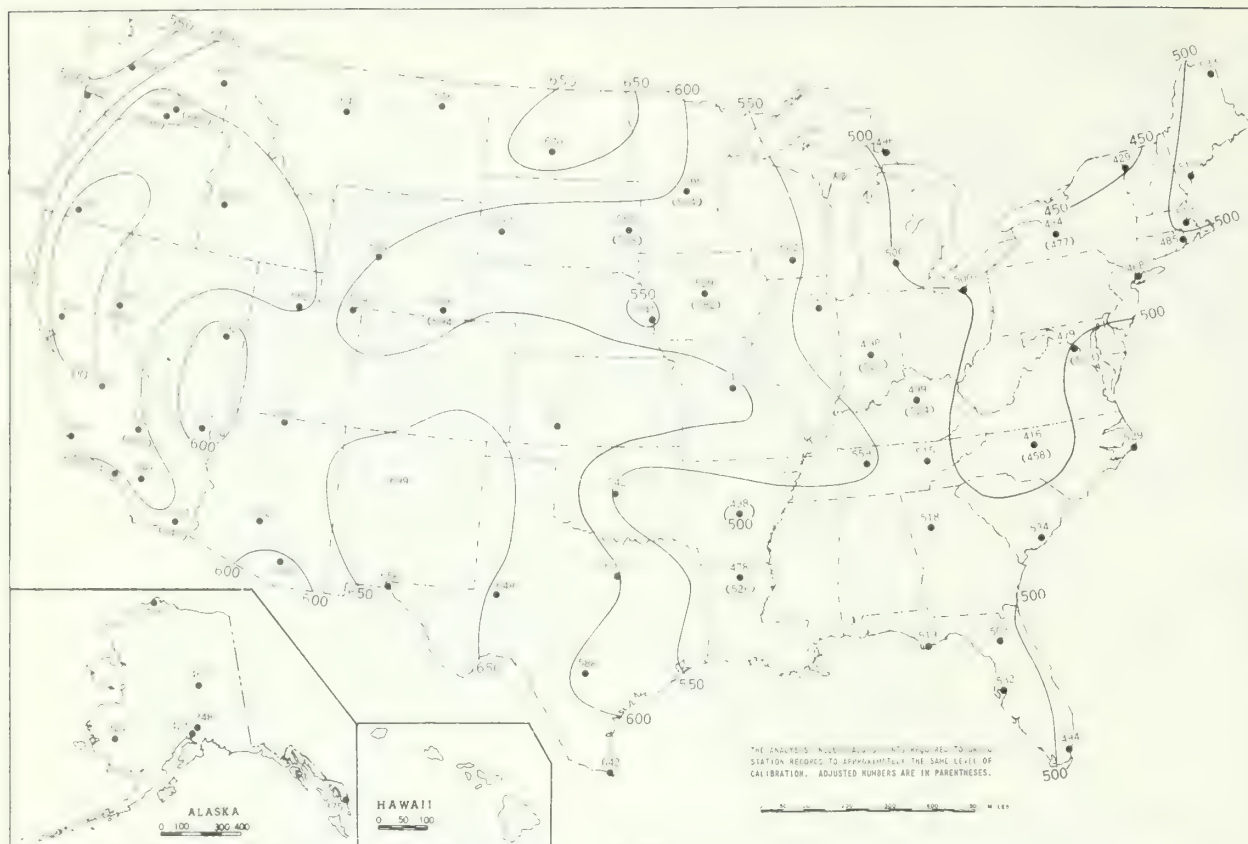


B. Percentage of Mean Monthly Sunshine, July 1970.



A. Computed from total number of hours of observed sunshine in relation to total number of possible hours of sunshine during month. B. Means are computed for stations having at least 10 years of record.

Chart VII. A. Average Daily Values of Solar Radiation, Langleys, July 1970.

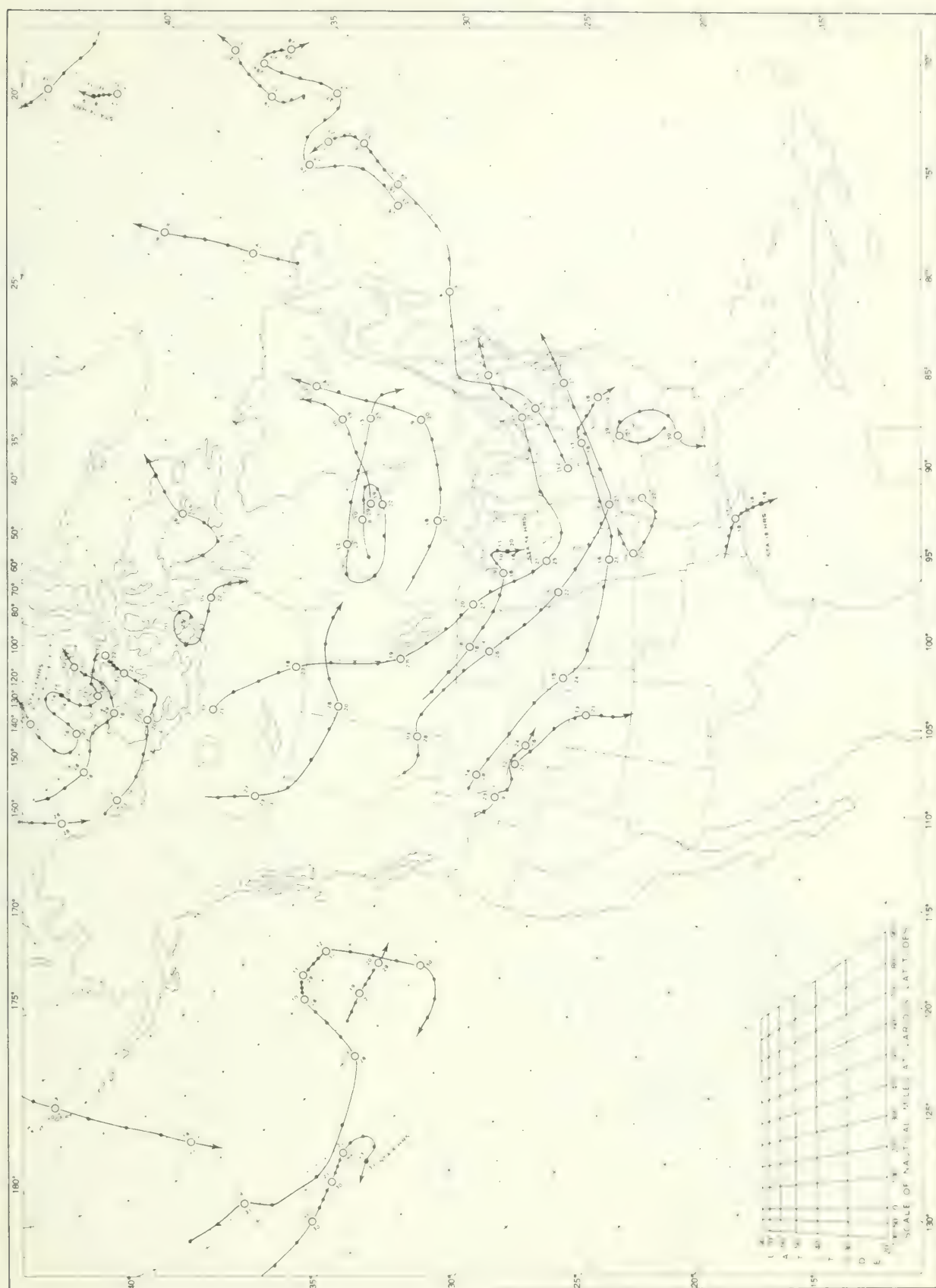


B. Percentage of Mean Daily Solar Radiation, July 1970.



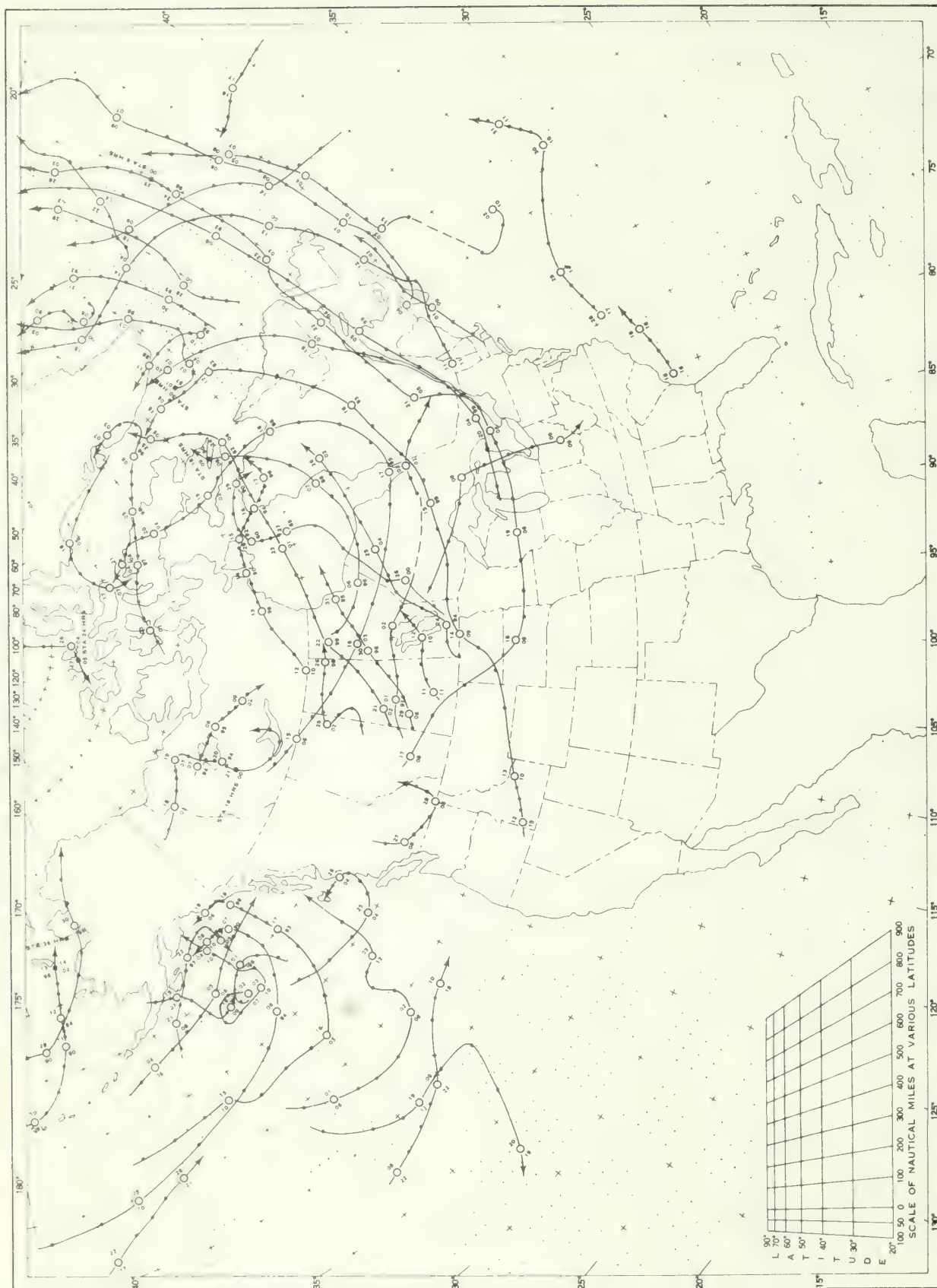
A. Mean daily solar radiation, direct + diffuse, received on a horizontal surface in langleys (1 langley = 1 gm. cal. cm.⁻²) and recorded in International Pyrheliometer Scale of 1956. B. Percentage of the mean based on at least 5 years of record during the period 1950-60, and corrected to the International Pyrheliometer Scale of 1956.

Chart VIII Tracks of Anticyclones at Sea Level, July 1970.



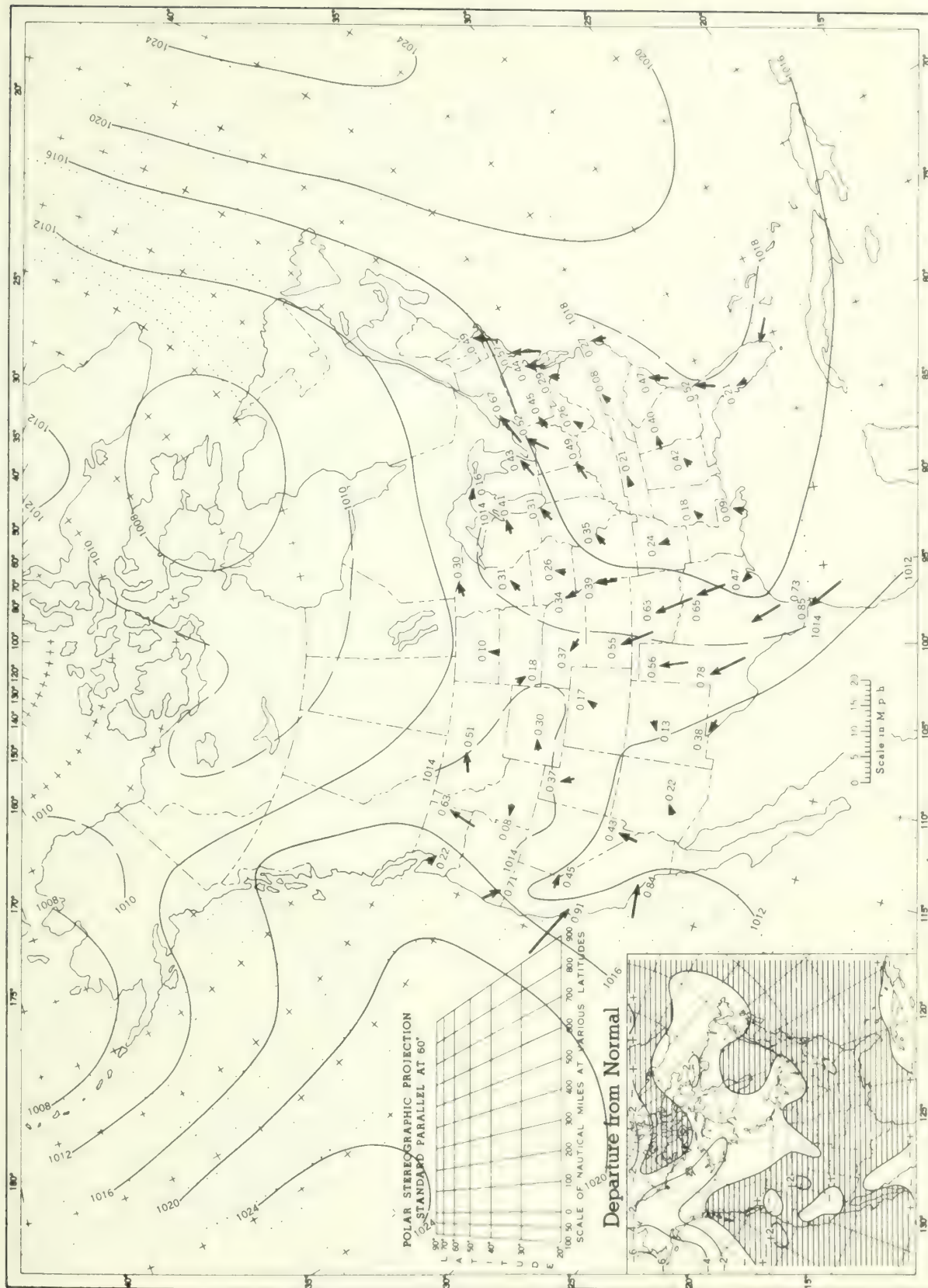
Circle indicates position of center at 0000 UTC. Figure above circle indicates date, figure below, pressure to nearest millibar.
Dots indicate intervening 6 hourly positions. Squares indicate position of stationary center for period shown. Dashed line in track indicates reformation at new position. Only those centers which could be identified for 24 hours or more are included.

Chart IX Tracks of Centers of Cyclones at Sea Level, July 1970.



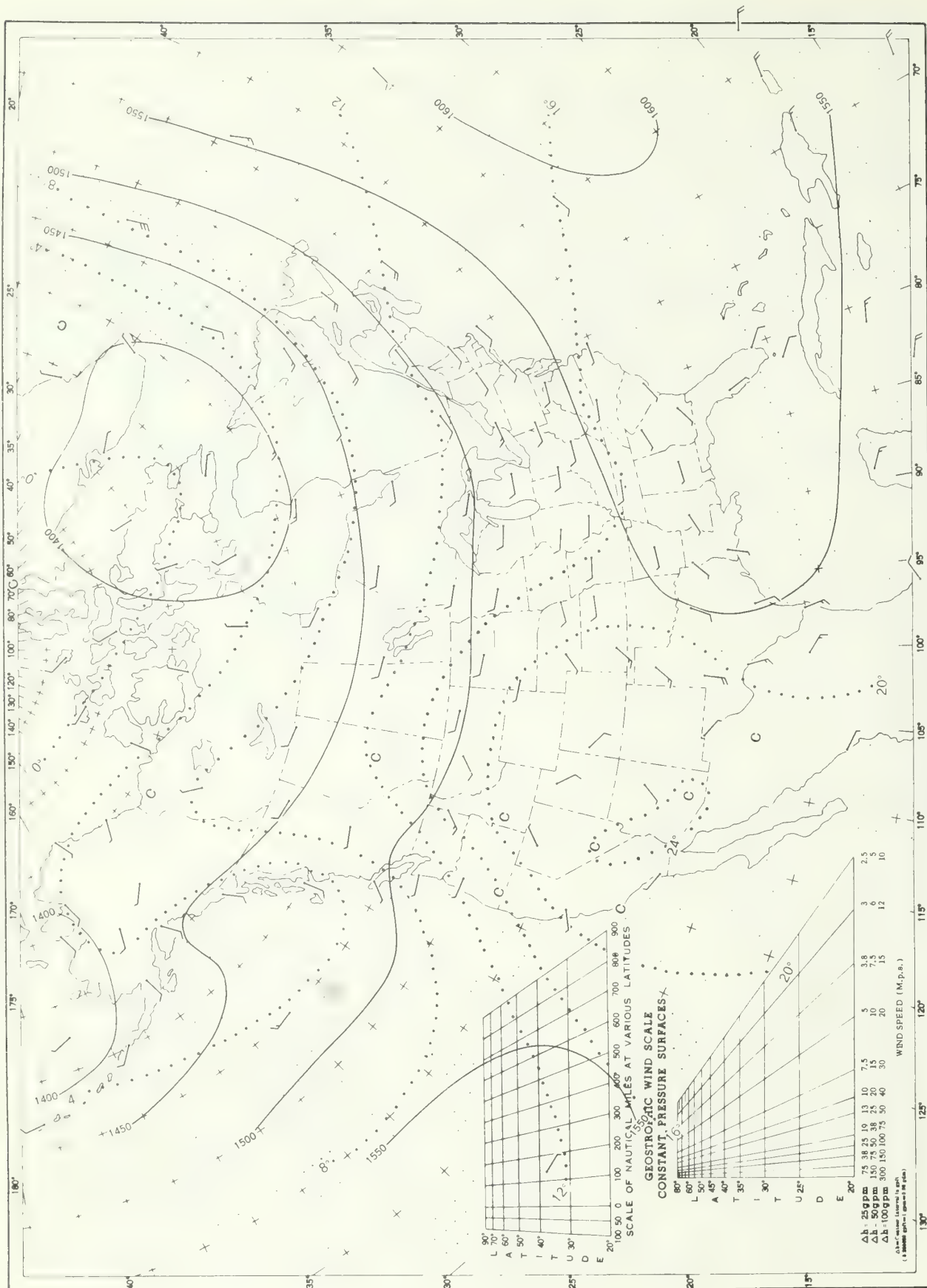
Circle indicates position of center at 7:00 a.m. E.S.T. Figure above circle indicates date; figure below, pressure to nearest millibar. Dots indicate intervening 6-hourly positions. Squares indicate position of stationary center for period shown. Dashed line in track indicates reformation at new position. Only those centers which could be identified for 24 hours or more are included.

Chart X. Average Sea Level Pressure (mb) and Resultant Surface Wind, July 1970. Inset: Departure of Average Pressure (mb) from Normal, July 1970.



Average sea level pressures are obtained from eight daily 3-hourly observations. Resultant wind directions and speeds are shown by arrows. Constancy ratios (resultant speed ÷ average speed) are shown to two decimal places. Pressure normals are computed for stations having at least 10 years of record and for 10° intersections in a diamond grid over the oceans.

Chart XI. 350-mb Surface, 1200 GMT, July 1970. Average Height and Temperature, and Resultant Winds



Height in geopotential meters (1 g.p.m. = 0.98 dynamic meters). Temperature in °C. Wind speed in meters per second; flag represents 25 mps, full feather 5 mps, and half feather 2.5 mps. All wind data are based on rawin observations.

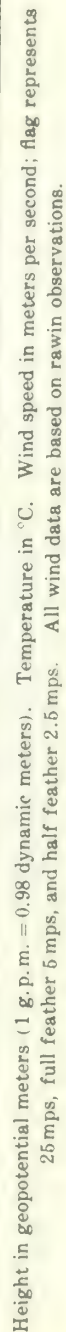


Chart XIII. 500-mb. Surface, 1200 GMT, July 1970. Average Height and Temperature, and Resultant Winds.

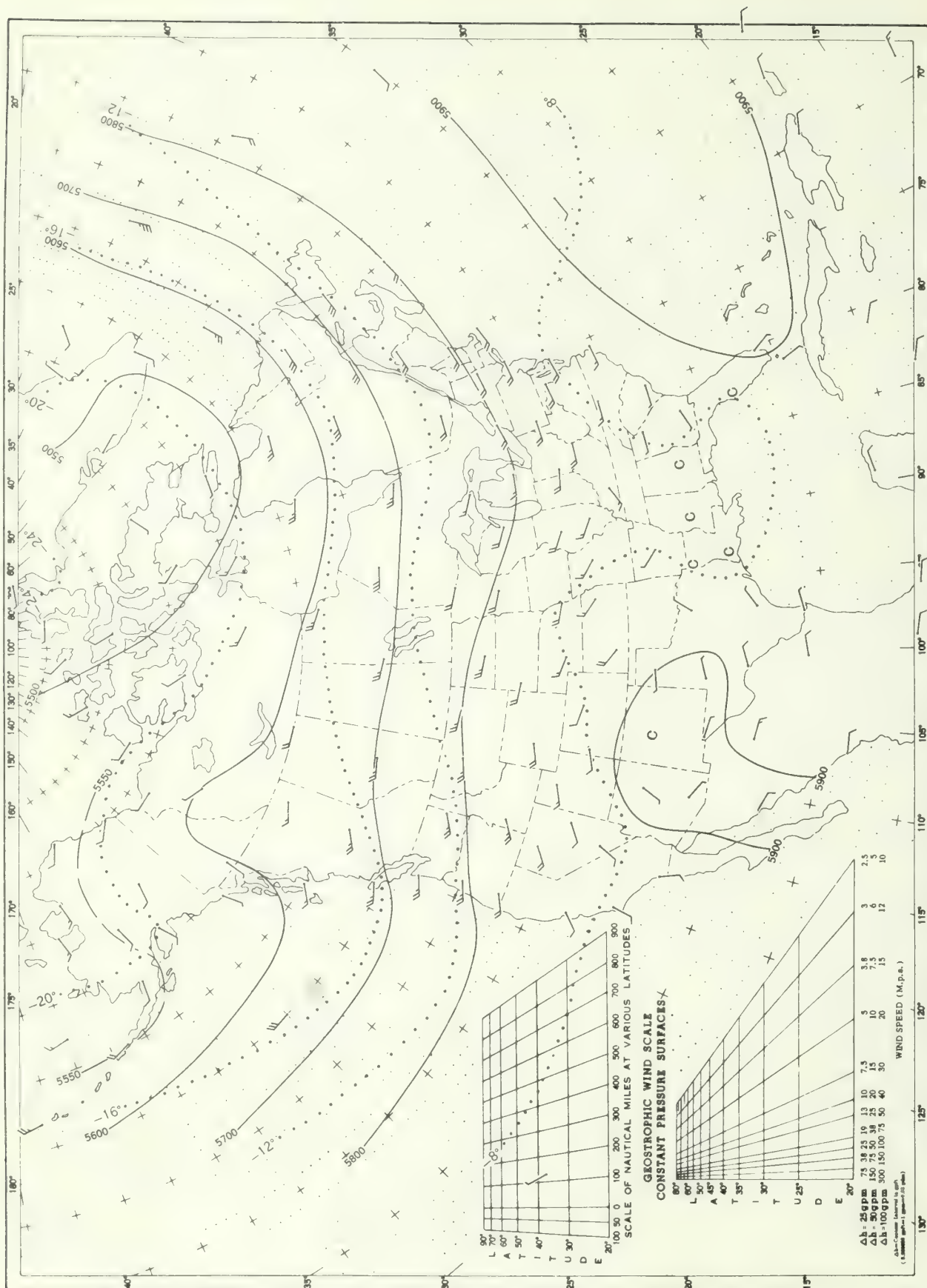
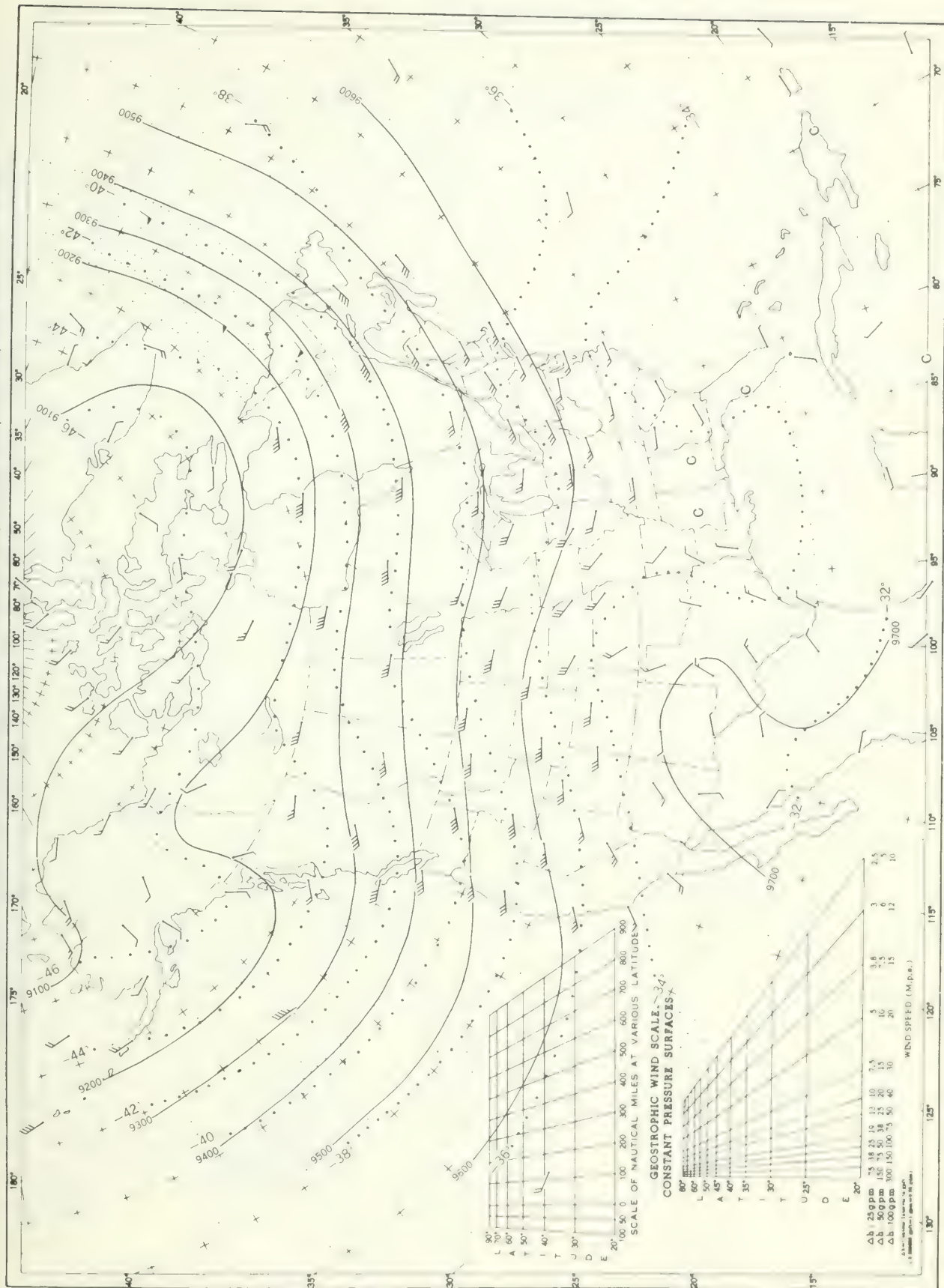
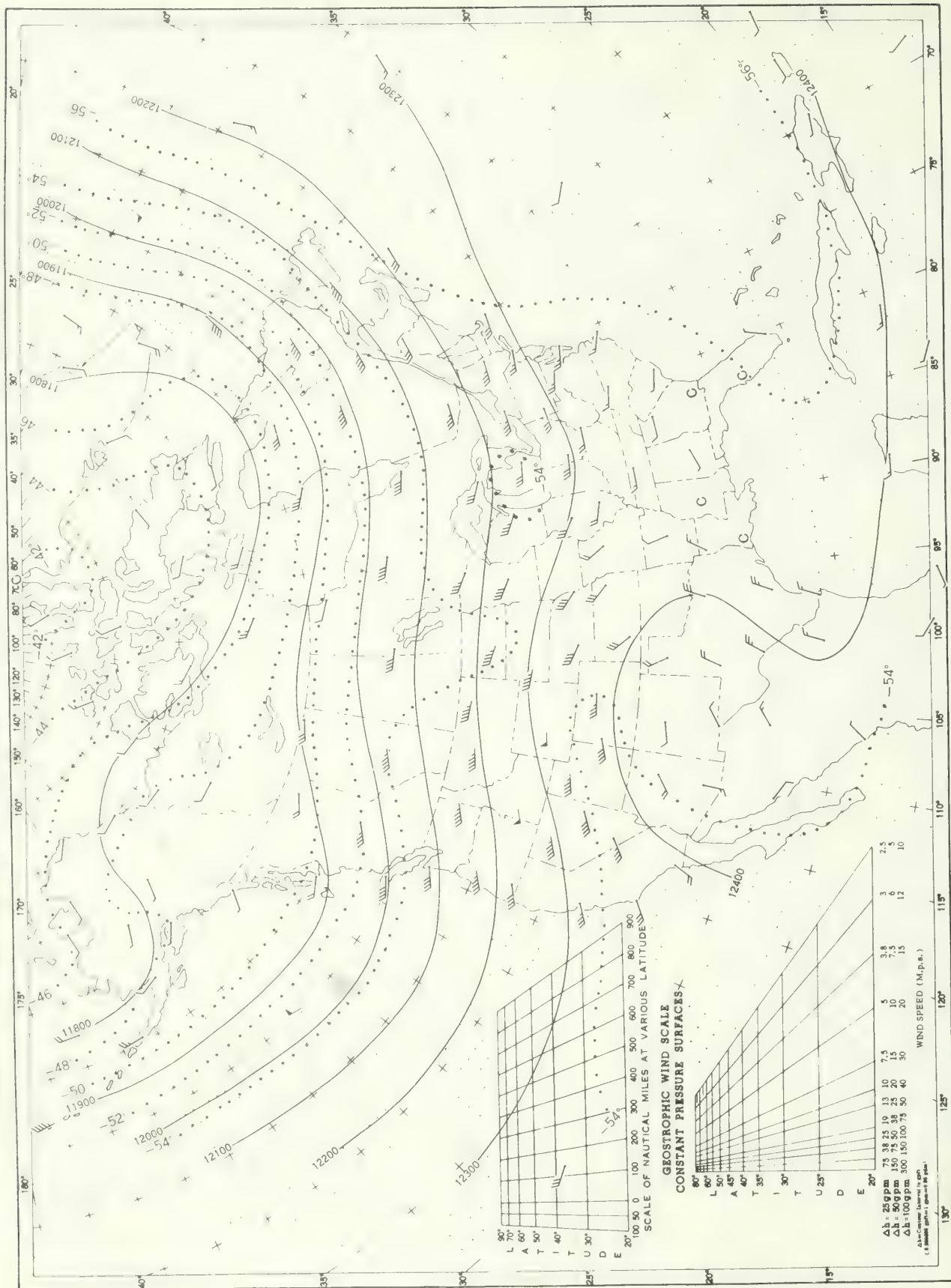


Chart XIV. 300-mb. Surface, 1200 GMT, July 1970. Average Height and Temperature, and Resultant Winds



Height in geopotential meters (1 g.p.m. = 0.98 dynamic meters). Temperature in °C. Wind speed in meters per second; flag represents 25mps, full feather 5 mps, and half feather 2.5 mps. All wind data are based on rawin observations.

Chart XV 200-mb Surface, 1200 GMT, July 1970. Average Height and Temperature, and Resultant Winds



Height in geopotential meters (1 g.p.m. = 0.98 dynamic meters). Temperature in °C. Wind speed in meters per second; flag represents 25mps, full feather 5mps, and half feather 2.5mps. All wind data are based on rawin observations.

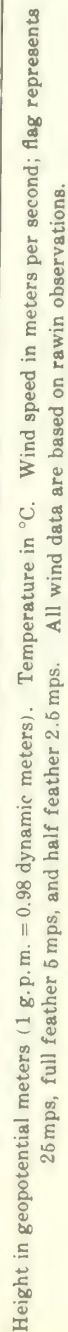
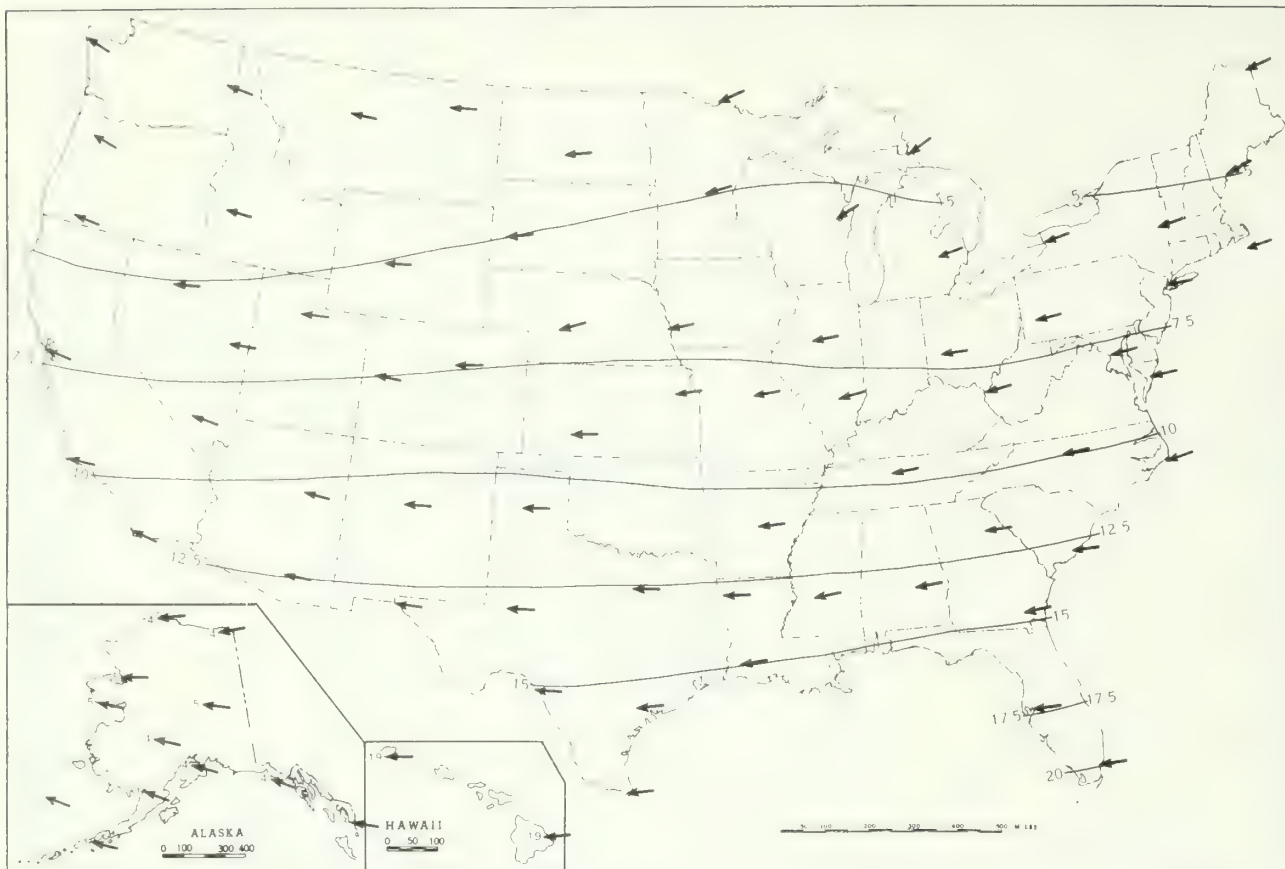
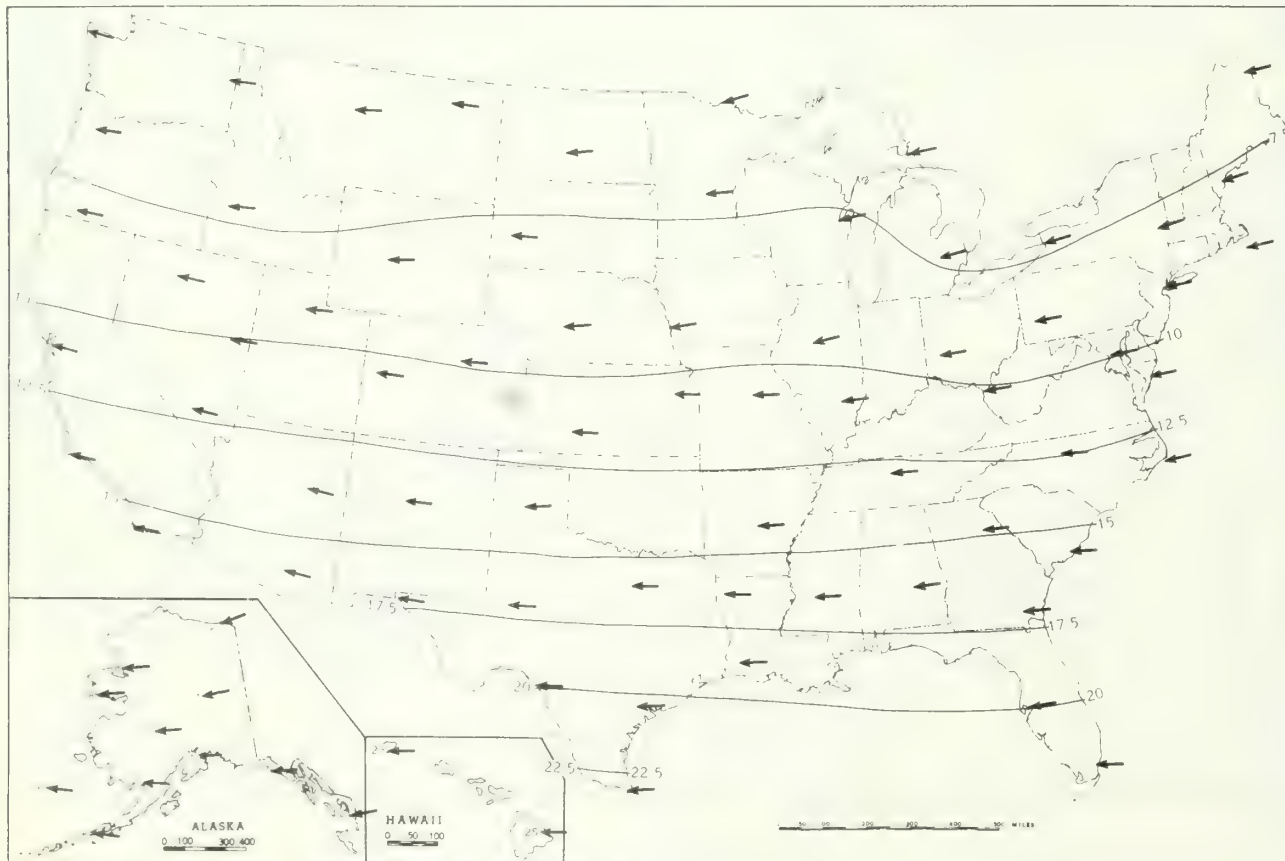


Chart XVII. A. 50-mb. Surface, 1200 GMT, July 1970. Resultant Winds.



B. 30-mb. Surface, 1200 GMT, July 1970. Resultant Winds.



Wind speed (isotachs) in meters per second. Arrows show resultant wind direction. All wind data are based on rawin observations.

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Climatological Data

NATIONAL SUMMARY

U.S. DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
ENVIRONMENTAL DATA SERVICE



AUGUST

1970

June 21

No. 8

1, N.C.

1971

C O N T E N T S

| | |
|---|------|
| SURFACE DATA | Page |
| General Summary of Weather Conditions----- | 385 |
| Observed Extremes of Temperature and Precipitation - By States- | 386 |
| Climatological Data - Stations - English Units----- | 387 |
| Climatological Data - Stations - Metric Units----- | 394 |
| Heating Degree Days----- | 401 |
| Cooling Degree Days----- | 402 |
| Hurricane Celia, July 30 to August 5, 1970----- | 403 |
| Storm Summary----- | 418 |
| General Summary of River and Flood Conditions----- | 419 |
| Flood Stage Data----- | 421 |
| UPPER AIR DATA | |
| Rawinsonde Data----- | 422 |
| SOLAR RADIATION DATA | |
| Solar Radiation Intensities----- | 429 |
| Daily Totals and Monthly Averages----- | 430 |
| Net Radiation----- | 432 |
| Solar Ultra-Violet Radiation----- | 432 |
| TOTAL OZONE DATA----- | 432 |
| CHARTS I-XVII----- | 433 |

CLIMATOLOGICAL DATA

NATIONAL SUMMARY

Volume 21 No. 8

AUGUST 1970

GENERAL SUMMARY OF WEATHER CONDITIONS

HIGHLIGHTS:

1. Only brief cool spells interrupted the summer heat that prevailed over most of the Nation.
2. A hurricane, a few tornadoes, and numerous thunderstorms occurred.

TEMPERATURE.--Only brief cool spells interrupted the typical summer heat that prevailed over most of the Nation in August. Most of the Country averaged slightly warmer than normal. The principal exception was a large area that extended from Illinois to Ohio and southward to Alabama and the southern Appalachians. Parts of the Great Basin and spots in the northern and central Great Plains averaged more than 3° warmer than normal. Reno, Nev., with an average temperature of 96.2°, experienced the warmest month of record which began in 1888.

A large, stagnant, hot, humid air mass lay over the central and eastern portions of the Nation early in the month. Temperatures in the northern and central Great Plains reached 100° frequently and maximums in the southwestern deserts were much higher. Thermal, Calif., registered 114° on August 6 and Daggett, Calif., recorded 113° on the 10th. Maximums in Florida reached 90° or higher in the first week of August with Palm Beach and Miami recording 96° on the 5th.

A cool snap dropped temperatures in northern Minnesota and Upper Michigan to the 30's and 40's on the 14th but by the 16th, those areas had warmed to the 80's. About mid-August most of the Nation suffered from heat and high humidity. The mercury reached 100° or higher in Texas on several days and Concord, N. H., registered 96° on the 16th. High humidity and pollutants which accompanied the high temperatures in the East made the weather feel quite oppressive.

About the end of the 3d week of August, a high-pressure area centered over British Columbia brought cooler temperatures to the northern and central Rocky Mountains and the northern Great Plains. Near-freezing weather occurred at some mountain locations. Big Piney, Wyo., recorded 31° on the 20th. A quick warmup followed the brief cool spell in the north-central part of the Nation and broiling temperatures continued in the southwestern deserts, reaching 108° at Imperial and Palm Springs, Calif., on the 20th.

Hot weather continued over the West and the northern States in the last week of August. Some moderation occurred over the central Great Plains and the Deep South. Parts of Texas averaged 3° to 6° cooler than normal in the last week of the month. The central Great Plains continued hot with 90° heat over most of the Corn Belt and 100° or higher at a few places. Early-morning fog was another feature of the weather in late August. On the 26th, the foggy area extended from Missouri to Maine and from Lower Michigan to northern Georgia. The fog usually vanished by midforenoon.

PRECIPITATION.--Hurricane Celia slammed into the Texas coast in the 1st week of August. Winds gusted to 180 m.p.h. as it moved inland across Corpus Christi Bay. Celia caused 11 deaths in Texas injured at least 466 persons, not including those who suffered minor cuts, scratches, and bruises, and caused property

and crop damage estimated at \$450 million. It may have been the costliest hurricane in Texas history.

Moderate to heavy showers fell in other parts of the Nation also in the first 10 days of August. They were more scattered in the central and southern Rockies but not so scattered from the middle and southern Mississippi River to the middle and southern Atlantic Coast. Heavy rains in Iowa, 4 to 7 inches in some spots, caused lowland flooding along some creeks and rivers on August 5. The showers spread southward to Missouri and Arkansas and eastward to the western portions of the Carolinas, to Georgia, and the Florida Peninsula. The heaviest showers occurred along a quasi-stationary front that extended across the southern Great Plains to the southern Atlantic Coast. Downpours, up to 10 inches or more, fell in the Appalachians north of the front. Mortimer, N. C., received 11.10 inches of rain in the 48-hour period ending at 2 p.m., August 10. Many streams in North Carolina and in the Savannah, Ga., area overflowed their banks.

Moderate to heavy thundershowers occurred along the Gulf Coast. Lighter, more scattered showers dotted the Rocky Mountains and adjoining Great Plains.

Shortly after midmonth, thunderstorms developed along a front that stretched from Kansas to Virginia. Spots in Iowa and northern Missouri and eastward to Pennsylvania received storm totals exceeding 4.00 inches. Scattered thunderstorms soaked portions of the Gulf Coast.

Early in the last week of August, showers occurred in the moist air south of a slow-moving front that lay near the Gulf and Atlantic Coasts.

Lighter showers fell in the northern Great Plains, the Great Lakes region, and in New England in connection with fronts in those areas. A heavy thunderstorm with hail struck Las Vegas, Nev., on the 26th and the following day, Elko, Nev., received over 4.00 inches of rain. A sprawling high stretched across mid-America from New Mexico to New York producing cloudless skies and no rain except widely scattered light sprinkles from Arizona to Ohio and from Montana to Oklahoma. A few sprinkles also fell in Kentucky, Virginia, and North Carolina.

The monthly total at Appalachicola, Fla., 21.08 inches, set a new record for August. The previous August maximum rainfall was 18.93 inches which fell in 1935. The record for any month is 22.55 inches which fell at Appalachicola in September 1946. The August 1970 rain total at Appalachicola is 274% of the normal. At the other extreme, California received no rain except a few widely scattered light sprinkles. Totals generally were less than 1.00 inch over the northern and central Rocky Mountains and the northern Great Plains. Much of this area received less than 0.25 inch. An exception was Pierre, S. Dak., where August rains totaled more than 4.00 inches. Totals ranged widely within short distance in the southern Great Plains. For instance, Wichita Falls, Tex., received only 0.36 inch while nearby Fort Worth received 6.85 inches. San Antonio's total was 0.95 inch; Corpus Christi's, 7.32 inches. Most stations over the eastern half of the Nation received over 2 inches of rain in August.

OBSERVED EXTREMES OF TEMPERATURE AND PRECIPITATION -- BY STATES

AUGUST 1970

| STATE | Temperature | | | | | | Precipitation | | | |
|----------------|---------------------------|---------------|------|----------------------------|--------------|------|------------------------|-----------------|-----------------------|--------------|
| | Monthly extremes | | | | | | Monthly extremes | | | |
| | Station | Highest
°F | Date | Station | Lowest
°F | Date | Station | Greatest
In. | Station | Least
In. |
| Alabama | Pied City 1 NNE | 102 | 31 | 2 Stations | 54 | 25 | Coden | 17.70 | Waterloo | 1.45 |
| Alaska | Nome, 1st Meadows | 81 | 3 | Glennallen-KCAM | 20 | 28 | Whittier | 18.67 | Goose Bay NKE Site | .19 |
| Arizona | Willow Beach | 117 | 11 | Hawley Lake | 38 | 30 | Fort Huachuca | 8.06 | Seba Dalkai School | .00 |
| Arkansas | Fort Smith WBAP | 108 | 8 | 3 Stations | 50 | 26 | Okay | 12.87 | Natural Dam | .44 |
| California | Death Valley | 123 | 10 | White Mountain 2 | 15 | 31 | Palomar Mt Observatory | 4.74 | 453 Stations | .00 |
| Colorado | 5 Stations | 105 | 14 | Fraser | 23 | 11 | Antero Reservoir | 5.40 | 2 Stations | .02 |
| Connecticut | Hartford WBAP | 97 | 16 | Coventry | 42 | 19 | Coventry | 5.45 | Mount Carmel | 2.07 |
| Delaware | Milford 2 WSW | 94 | 13 | Milford 2 WSW | 51 | 22 | Lewes 1 SW | 4.00 | Dover | 1.27 |
| Florida | 6 Stations | 99 | 7+ | Madison | 62 | 27 | Apalachicola WB City | 21.08 | Miami Beach | 1.27 |
| Georgia | Hartwell | 102 | 31 | 2 Stations | 55 | 25 | Midville Exp Sta | 15.97 | Norcross 4 N | .50 |
| Hawaii | Kaunakakai Beach 260 23mi | 94 | 15 | Mauna Loa Slope Obs,Hawaii | 32 | 9 | Honoumouka 138, Hawaii | 43.03 | 10 Stations | .00 |
| Idaho | 4 Stations | 107 | 24 | Grouse | 21 | 28 | Cabinet Gorge | 1.35 | 15 Stations | .00 |
| Illinois | 2 Stations | 100 | 2+ | 4 Stations | 49 | 21 | Rockport | 14.86 | Antioch 2 NW | .50 |
| Indiana | Madison Sewage Plant | 97 | 15 | Covington 4 NE | 42 | 22 | Jeffersonville | 5.98 | Monroeville 3 ENE | .38 |
| Iowa | 3 Stations | 103 | 1 | 2 Stations | 42 | 23 | Bloomfield | 14.31 | Inwood 2 SW | .10 |
| Kansas | 3 Stations | 111 | 8+ | 9 Stations | 51 | 26+ | Axtell | 6.78 | Marion Dam | .00 |
| Kentucky | Bardwell 4 E | 101 | 3 | Falmouth 5 WNW | 48 | 25+ | Scottsville 3 SSW | 9.89 | Owenton | .92 |
| Louisiana | Slidell | 103 | 2 | 2 Stations | 57 | 26 | Galliano | 15.52 | Greenwood Fire Tower | .46 |
| Maine | 5 Stations | 94 | 17 | 3 Stations | 36 | 5 | Vanceboro No 2 | 7.03 | Telos Dam | 1.48 |
| Maryland | Vienna | 96 | 1 | Savage River Dam | 44 | 18 | Vienna | 5.91 | Crisfield Somers Cove | .69 |
| Massachusetts | Chester 2 | 102 | 16 | 2 Stations | 41 | 31+ | New Bedford | 8.94 | Fitchburg 2 S | 2.73 |
| Michigan | Ontonagon | 94 | 15 | Herman | 29 | 31 | Montague | 3.70 | 3 Stations | .35 |
| Minnesota | Artichoke Lake | 99 | 26 | Cotton 10 E | 23 | 31 | Dawson | 5.22 | Wheaton | .07 |
| Mississippi | 4 Stations | 99 | 3+ | Batesville 2 SW | 54 | 26 | Pascagoula 2 ENE | 15.32 | Lafayette Springs | 1.03 |
| Missouri | 4 Stations | 106 | 18+ | Grovespring | 46 | 24 | Memphis | 21.96 | Cole Camp 9 SE | .57 |
| Montana | 2 Stations | 106 | 7 | Summit | 21 | 19 | Heron 2 NW | 2.94 | 7 Stations | .00 |
| Nebraska | Stapleton | 108 | 18 | Agate 3 E | 38 | 22 | Geneva | 6.49 | 2 Stations | .00 |
| Nevada | Sunrise Manor Las Vegas | 114 | 11+ | 2 Stations | 30 | 21+ | Elko FAA AP | 4.61 | 5 Stations | .00 |
| New Hampshire | Keene | 98 | 15 | Mount Washington | 29 | 31 | Bethlehem | 7.47 | Lebanon FAA AP | 1.99 |
| New Jersey | Seabrook Farms | 96 | 29 | Sussex 1 SE | 42 | 22 | Moorestown | 6.72 | Glassboro | .61 |
| New Mexico | Jal | 106 | 18 | Eagle Nest | 33 | 26 | Mayhill Ranger Station | 6.31 | Canton | .1 |
| New York | 2 Stations | 98 | 17+ | 3 Stations | 35 | 19 | Claryville 2 SW | 6.97 | Alexandria Bay | .80 |
| North Carolina | 2 Stations | 99 | 31 | Boone | 45 | 25 | Mortimer | 16.86 | Elizabeth City FAA AP | 1.21 |
| North Dakota | Linton | 108 | 13 | 3 Stations | 35 | 20+ | Bowman Court House | 2.98 | Nedora | .00 |
| Ohio | 3 Stations | 96 | 15+ | Athens 5 NW | 43 | 24 | Peebles | 6.24 | Mt Gilead Lakes Park | .11 |
| Oklahoma | Frederick | 114 | 9 | Kenton | 51 | 25 | Sobol Tower | 7.61 | Perkins 1 SSE | .02 |
| Oregon | Pilot Rock 1 SE | 107 | 23 | 2 Stations | 24 | 24+ | Dayville | .67 | 69 Stations | .00 |
| Pennsylvania | Buffet Caverns 2 NE | 101 | 14 | Coudersport 5 NW | 36 | 22 | Sagamore 1 S | 9.03 | Burgettstown 2 W | .67 |
| Puerto Rico | Maguayes Island, P.R. | 96 | 20 | 2 Stations, P.R. | 57 | 19+ | Rio Balco Upper, P.R. | 17.09 | Water Isle, V.I. | 2.01 |
| Rhode Island | Greenville | 94 | 14 | 2 Stations | 47 | 31+ | Providence WBAP | 6.59 | Woonsocket | 4.06 |
| South Carolina | Andrews | 100 | 3+ | Ninety Nine Islands | 51 | 24 | Cleveland 4 S | 15.24 | McCormick 9 E | 2.01 |
| South Dakota | Philip | 113 | 26 | Pactola Dam | 37 | 20 | Pierre FAA AP | 5.21 | Martin | .02 |
| Tennessee | 2 Stations | 100 | 3 | Mountain City No 2 | 49 | 27 | Norris | 9.98 | Centerville Water Pl | 1.08 |
| Texas | Wichita Falls WBAP | 112 | 9 | Mount Locke | 45 | 7 | Texarkana | 11.05 | Bedias | .00 |
| Utah | Saint George | 109 | 11 | Soldier Creek | 28 | 10 | Escalante | 4.12 | Laketown | .04 |
| Vermont | Vernon | 95 | 16 | West Burke | 35 | 19 | Mount Mansfield | 7.45 | Rutland | 2.23 |
| Virginia | Chase City | 99 | 30 | Blacksburg 3 SE | 42 | 26 | Meadows of Dan 5 SW | 8.49 | Chincoteague WL Ref | .44 |
| Washington | 2 Stations | 109 | 24 | 2 Stations | 31 | 18 | Cedar Lake | 1.64 | 22 Stations | .00 |
| West Virginia | Hamlin | 99 | 23 | 2 Stations | 43 | 25+ | Dry Creek | 8.14 | Berkeley Springs | .99 |
| Wisconsin | Bayfield 6 N | 98 | 14 | 2 Stations | 29 | 31+ | Galesville 3 SE | 4.29 | Blue Mounds 5 S | .07 |
| Wyoming | Arvada 3 N | 106 | 12 | Bondurant 3 NW | 22 | 10 | Encampment 10 ESE | 3.65 | 14 Stations | .00 |

* All 1950 or an earlier date of later.

Note: Dates in the above table apply to the period 24 hours prior to time of observation. In some cases the actual occurrence is on the calendar date preceding that shown. (See individual Climatological Data for times of observations).

| State and Station | Pressure | | Temperature | | | | Precipitation | | | | Wind | | | | No. of days (sunrise to sunset) | | Possible sunshine % | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | Elevation (ground) | Station Q | Sea level | Average maximum | Average minimum | Average | Departure from normal | Highest | Lowest | Date | No. of days | | Average relative humidity | Total | | | | Departure from normal | Greatest in 24 hours | No. of days | With thunderstorms | Total | Ice pellets | Snow. | Resultant speed | Resultant direction | Speed | Direction | Date | Clear, 0-3 | Partly cloudy, 4-7 | Cloudy, 8-10 | Sky cover (tenths (sunrise to sunset)) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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CLIMATOLOGICAL DATA

ENGLISH UNITS

AUGUST 1970

| State and Station | Elevation (ground) | Pressure | | Temperature | | | | | | | | | | Precipitation | | | | | | Wind | | | | No. of days (sunrise to sunset) | | Possible sunshine | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | | Station | Sea level | Average maximum | | Average minimum | | Average | Departure from normal | Date | | No. of days | | Average relative humidity | Total | Departure from normal | Greatest in 24 hours | No. of days | | Resultant speed | Resultant direction | Speed | Direction | | | | Fastest mile | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | F | F | F | F | | | F | F | F | F | | | | | F | F | | | | | F | F | | | F | F | F | F | F | F | F | F | F | F | F | F | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Ft | Mb | Mb | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F |

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August 1970

See footnotes at end of table

| State and Station | Pressure | | | Temperature | | | | | | Precipitation | | | | | | Wind | | | | No. of days (sunrise to sunset) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | Elevation (ground) | Station Q | Sea level | Average maximum | Average minimum | Average | Departure from normal | Highest | | | Lowest | | | No. of days | | Average relative humidity | Total | In | Departure from normal | | | | Greatest in 24 hours | No. of days | Snow, ice pellets | Total | Maximum depth on ground | Resultant speed | Resultant direction | Speed | Direction | Date | Clear, 0.3 | Partly cloudy, 4.7 | Cloudy, 8.10 | Sky cover (tenths) (sunrise to sunset) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | Ft | Mb. | F | F | F | F | F | F | | | | | F | F | F | | | | | | | | | | | | | | | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F</ |

CLIMATOLOGICAL DATA

ENGLISH UNITS

AUGUST 1970

| State and Station | Elevation (ground) | Pressure | | | Temperature | | | | | | Precipitation | | | | Wind | | | | No. of days (sunrise to sunset) | | Possible sunshine (sunrise to sunset) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | | Station Q | Sea level | Average maximum | Average minimum | Average | Departure from normal | | | Date | | No. of days | | Total | Snow, ice pellets | Resultant speed | Resultant direction | Speed | | | | Direction | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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See footnotes at end of table

| State and Station | Elevation (ground) | Pressure | | Temperature | | | | | | | | | | Precipitation | | | | | Wind | | | | No. of days (sunrise to sunset) | | Possible sunshine | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------|--------------------|----------|-----------|-----------------|---|-----------------|---|---------|---|-----------------------|---|---------|---|---------------|---|--------|---|------|------|-------------|---|-------|---------------------------------|---|-------------------|-----------------------|---|----------------------|---|-------------|---|-------|----|--------|-----------------|---------------------|-----------|-------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Station | Sea level | Average maximum | | Average minimum | | Average | | Departure from normal | | Highest | | Date | | Lowest | | Date | | No. of days | | Total | | | | Departure from normal | | Greatest in 24 hours | | No. of days | | Total | In | M.p.h. | Resultant speed | Resultant direction | Direction | Speed | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | | F | F | | F | F | F | F | F | F | | | | | | | | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F |

Data from airport unless otherwise specified. U indicates Urban, R indicates Rural, sites.

Precipitation data in column headed "Greatest in 24 hours" are computed on a 24-hour basis without regard to calendar day - data may include precipitation with a measurable amount from the last day of the previous month or the first day of the following month.

Wind directions under resultant direction are in tens of degrees.

Value entered in column "Fastest Mile" is the highest observed 1-minute wind speed when the direction is in tens of degrees. These stations are not equipped with a recording anemometer from which "Fastest Mile" data can be evaluated.

R Number of days maximum 70° F. or above for Alaskan Stations.

Y Peak Gust.

+ Add also on an earlier date or dates.

Ø Station pressures apply to elevations shown in the "Elevations - Station Pressure" table of the annual issue of this publication.

METRIC UNITS

AUGUST 1974

See footnotes at end of table

METRIC UNITS

AUGUST 1970

See footnotes at end of table

CLIMATOLOGICAL DATA

METRIC UNITS

AUGUST 1970

| State and Station | Elevation (ground) | Pressure | | Temperature | | | | | | Precipitation | | | | Wind | | | No. of days
sunrise to
sunset | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | | Station
Q | Sea level | Average maximum | | Average minimum | | Average | Departure from normal | | Highest | Lowest | Date | Max 32.2 °C or above | Min 0 °C or lower | No. of
days | Average relative humidity | Precipitation | | | Wind | | | Clear, 0.3 | Partly cloudy 4.7 | Cloudy 8-10 | Sky cover, tenths
(sunrise to sunset) | % | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | C | F | C | F | | C | F | | | | | | | | C | F | Mm | In | Mm | In | | | | | | Mm | Mps | Mph | Direction | Speed
(1.6 kilometers) | Direction | Date | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mb | in | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F |

METRIC UNITS

AUGUST 1970

See footnotes at end of table

METRIC UNITS

Aug 31 1970

See footnotes at end of table

METRIC UNITS

Aug. 1 1976

See indexes at end of table

(Base 65°F.)

(Base 65°F.)

¹ I indicate that R is a \mathbb{Q} -algebra.

COOLING DEGREE DAYS

(Base 65°F.)

AUGUST 1970

| State and station | Current season | | | State and station | Current season | | | State and station | Current season | | | State and station | Current season | | |
|---------------------|----------------|-----------------------------------|------------------------------------|---------------------|----------------|-----------------------------------|------------------------------------|---------------------|----------------|-----------------------------------|------------------------------------|-------------------|----------------|-----------------------------------|------------------------------------|
| | This month | Period January through this month | Normals January through this month | | This month | Period January through this month | Normals January through this month | | This month | Period January through this month | Normals January through this month | | This month | Period January through this month | Normals January through this month |
| ALABAMA | | | | HAWAII | | | | NEBRASKA | | | | SOUTH DAKOTA | | | |
| BIRMINGHAM | 432 | 1498 | | HILLO | 313 | 1966 | | NORTH PLATTE | 341 | 848 | | ABERDEEN | 235 | 643 | |
| HUNTSVILLE | 459 | 1475 | | HONOLULU | 586 | 3420 | | OMAHA | 361 | 1237 | | HURON | 279 | 760 | |
| MOBILE | 567 | 2186 | | KAHULUI | 479 | 2619 | | SCOTTSBLUFF | 263 | 623 | | RAPID CITY | 279 | 630 | |
| MONTGOMERY | 494 | 1771 | | LIHUE | 498 | 2765 | | VALENTINE | 315 | 886 | | SIOUX FALLS | 241 | 753 | |
| ALASKA | | | | IDAHO | | | | NEVADA | | | | TENNESSEE | | | |
| ANCHORAGE | 0 | 0 | | BOISE | 341 | 923 | | ELKO | 162 | 376 | | BRISTOL | 314 | 1041 | |
| ANNETTE | 3 | 3 | | LEWISTON | 320 | 910 | | ELY | 110 | 230 | | CHATTANOOGA | 412 | 1377 | |
| BARROW | 0 | 0 | | POCATELLO | 230 | 518 | | LAS VEGAS | 748 | 2481 | | KNOXVILLE | 384 | 1264 | |
| BARTER ISLAND | 0 | 0 | | ILLINOIS | | | | RENO | 210 | 472 | | MEMPHIS | 509 | 1705 | |
| BETHEL | 0 | 0 | | CAIRO U | 462 | 1529 | | WINNEMUCCA | 191 | 596 | | NASHVILLE | 446 | 1316 | |
| BETTLES | 0 | 2 | | CHICAGO O HARE | 254 | 850 | | NEW HAMPSHIRE | | | | OAK RIDGE R | 361 | 1128 | |
| BIG DELTA | 0 | 2 | | CHICAGO MIDWAY | 322 | 1028 | | CONCORD | 145 | 427 | | TEXAS | | | |
| COLD BAY | 1 | 1 | | MOLINE | 256 | 946 | | MT WASHINGTON OBS | 0 | 0 | | ABILENE | 590 | 1943 | |
| FAIRBANKS | 0 | 22 | | PEORIA | 239 | 857 | | | | | | AMARILLO | 446 | 1458 | |
| GULKANA | 0 | 2 | | ROCKFORD | 209 | 722 | | NEW JERSEY | 285 | 763 | | AUSTIN | 651 | 2110 | |
| HOMER | 0 | 0 | | SPRINGFIELD | 284 | 1041 | | ATLANTIC CITY | 315 | 730 | | BROWNSVILLE | 648 | 2686 | |
| JUNEAU | 0 | 0 | | INDIANA | | | | ATLANTIC CITY U | 387 | 1056 | | CORPUS CHRISTI | 599 | 2308 | |
| KING SALMON | 0 | 0 | | EVANSVILLE | 331 | 1092 | | NEWARK | 356 | 974 | | DALLAS | 689 | 2277 | |
| KOTZEBUE | 0 | 3 | | FORT WAYNE | 240 | 823 | | TRENTON U | | | | DEL RIO | 637 | 2279 | |
| MC GRATH | 0 | 0 | | INDIANAPOLIS | 292 | 980 | | | | | | EL PASO | 514 | 1843 | |
| NOME | 0 | 0 | | SOUTH BEND | 185 | 665 | | NEW MEXICO | | | | FORT WORTH | 653 | 2037 | |
| ST. PAUL ISLAND | 0 | 0 | | IOWA | | | | ALBUQUERQUE | 405 | 1217 | | GALVESTON U | 583 | 2097 | |
| CHEMUNYA | 0 | 0 | | BURLINGTON | 247 | 878 | | CLAYTON | 270 | 765 | | HOUSTON INTERCON | 567 | 1943 | |
| SUMMIT | 0 | 0 | | DES MOINES | 280 | 1048 | | ROSWELL | 420 | 1360 | | LUBBOCK | 440 | 1464 | |
| TALKEETNA | 0 | 0 | | DUBUQUE | 182 | 669 | | | | | | MIDLAND | 467 | 1640 | |
| UNALAKLEET | 0 | 0 | | SIOUX CITY | 318 | 1032 | | NEW YORK | | | | PORT ARTHUR | 644 | 2317 | |
| YAKUTAT | 0 | 0 | | WATERLOO | 170 | 711 | | ALBANY | 160 | 540 | | SAN ANGELO | 639 | 2033 | |
| ARIZONA | | | | KANSAS | | | | BINGHAMTON | 109 | 321 | | SAN ANTONIO | 651 | 2214 | |
| FLAGSTAFF | 64 | 207 | | CONCORDIA | 497 | 1372 | | BUFFALO | 173 | 515 | | VICTORIA | 617 | 2187 | |
| PHOENIX | 862 | 3025 | | DODGE CITY | 520 | 1498 | | NEW YORK U | 398 | 1067 | | WACO | 723 | 2254 | |
| TUCSON | 620 | 2237 | | GOOULAND | 376 | 992 | | NEW YORK KENNEDY | 389 | 977 | | WICHITA FALLS | 627 | 2023 | |
| WINSLOW | 408 | 1127 | | TOPEKA | 490 | 1320 | | NEW YORK LA GUARDIA | 395 | 1013 | | | | | |
| YUMA | 900 | 3049 | | WICHITA | 573 | 1614 | | ROCHESTER | 176 | 622 | | UTAH | | | |
| ARKANSAS | | | | KENTUCKY | | | | SYRACUSE | 127 | 391 | | MILFORD | 347 | 800 | |
| FORT SMITH | 636 | 1806 | | COVINGTON | 320 | 1060 | | | | | | SALT LAKE CITY | 398 | 947 | |
| LITTLE ROCK | 511 | 1721 | | LEXINGTON | 306 | 963 | | NORTH CAROLINA | | | | WENDOVER | 449 | 1118 | |
| CALIFORNIA | | | | LOUISVILLE | 346 | 1116 | | ASHEVILLE | 259 | 788 | | VERMONT | | | |
| BAKERSFIELD | 621 | 2138 | | LOUISIANA | | | CAPE HATTERAS P | 422 | 1263 | | BURLINGTON | 150 | 425 | | |
| BISHOP | 407 | 1072 | | ALEXANDRIA | 483 | 1730 | | CHARLOTTE | 438 | 1375 | | VIRGINIA | | | |
| BLUE CANYON | 174 | 461 | | BATON ROUGE | 531 | 2007 | | GREENSBORO | 335 | 1325 | | LYNCHBURG | 272 | 992 | |
| EUREKA U | 0 | 1 | | LAKE CHARLES | 582 | 2095 | | RALEIGH | 327 | 1067 | | NORFOLK | 412 | 1249 | |
| FRESNO | 466 | 1604 | | NEW ORLEANS | 520 | 2024 | | WILMINGTON | 463 | 1583 | | RICHMOND | 410 | 1376 | |
| LONG BEACH | 325 | 814 | | SHREVEPORT | 606 | 1965 | | | | | ROANOK | 291 | 1038 | | |
| LOS ANGELES | 146 | 342 | | MAINE | | | | NORTH DAKOTA | | | WALLOPS ISLAND | 358 | 874 | | |
| LOS ANGELES U | 352 | 984 | | CARIBOU | 117 | 330 | | BISMARCK | 182 | 495 | | WASHINGTON | | | |
| MT SHASTA R | 97 | 369 | | PORTLAND | 136 | 367 | | FARGO | 180 | 561 | | OLYMPIA | 16 | 89 | |
| OAKLAND | 15 | 73 | | MARYLAND | | | | WILLISTON | 176 | 546 | | QUILLAYUTE | 1 | 16 | |
| RED BLUFF | 488 | 1677 | | BALTIMORE | 390 | 1163 | | OHIO | | | SEATTLE TACOMA | 36 | 155 | | |
| SACRAMENTO | 305 | 1030 | | MASSACHUSETTS | | | | AKRON | 210 | 689 | | SPOKANE | 175 | 574 | |
| SANDBERG R | 364 | 955 | | BLUE HILL OBS R | 204 | 535 | | CINCINNATI OBS | 304 | 1039 | | STAMPEDE PASS R | 21 | 47 | |
| SAN DIEGO | 247 | 483 | | BOSTON | 273 | 710 | | CLEVELAND | 171 | 701 | | WALLA WALLA U | 343 | 1008 | |
| SAN FRANCISCO | 21 | 90 | | WORCESTER | 177 | 460 | | COLUMBUS | 237 | 831 | | YAKIMA | 168 | 600 | |
| SAN FRANCISCO U | 8 | 50 | | MICHIGAN | | | | DAYTON | 275 | 978 | | | | | |
| SANTA MARIA | 0 | 38 | | ALPENA | 97 | 327 | | MANSFIELD | 271 | 824 | | WEST INDIES | | | |
| STOCKTON | 360 | 1211 | | DETROIT | 275 | 880 | | TOLEDO | 159 | 592 | | SAN JUAN P.R. | 540 | 3636 | |
| COLORADO | | | | DETROIT METRO | 236 | 713 | | YOUNGSTOWN | 148 | 527 | | SWAN ISLAND | 528 | 3808 | |
| ALAMOSA | 32 | 95 | | FLINT | 152 | 504 | | OKLAHOMA CITY | 582 | 1692 | | WEST VIRGINIA | | | |
| COLORADO SPRINGS | 209 | 513 | | GRAND RAPIDS | 180 | 612 | | TULSA | 619 | 1815 | | BECKLEY | 142 | 464 | |
| DENVER | 282 | 613 | | HOUGHTON LAKE | 95 | 357 | | OREGON | | | | CHARLESTON | 273 | 1021 | |
| GRAND JUNCTION | 430 | 1177 | | LANING | 134 | 501 | | ASTORIA | 0 | 7 | | ELKINS | 86 | 291 | |
| PUEBLO | 470 | 1324 | | MARQUETTE U | 139 | 387 | | BURNS U | 151 | 427 | | HUNTINGTON | 268 | 895 | |
| CONNECTICUT | | | | MUSKEGON | 162 | 565 | | EUGENE | 99 | 369 | | PARKERSBURG U | 290 | 995 | |
| BRIDGEPORT | 275 | 674 | | SAULT STE MARIE | 67 | 157 | | MEACHAM | 82 | 272 | | WISCONSIN | | | |
| HARTFORD | 280 | 797 | | MINNESOTA | | | | MEDFORD | 278 | 821 | | GREEN BAY | 150 | 531 | |
| DELAWARE | | | | DULUTH | 102 | 314 | | PENDLETON | 243 | 768 | | LA CROSSE | 178 | 769 | |
| WILMINGTON | 371 | 1045 | | INTERNATIONAL FALLS | 82 | 356 | | PORTLAND | 120 | 384 | | MADISON | 133 | 527 | |
| DIST OF COLUMBIA | | | | MINNEAPOLIS | 225 | 832 | | SALEM | 66 | 256 | | MILWAUKEE | 227 | 649 | |
| WASHINGTON DULLES | 228 | 752 | | ROCHESTER | 131 | 561 | | SEXTON SUMMIT R | 80 | 298 | | | | | |
| WASHINGTON NATIONAL | 442 | 1378 | | ST CLOUD | 151 | 595 | | PACIFIC AREA | | | | WYOMING | | | |
| FLORIDA | | | | MISSISSIPPI | | | | GUAM TAGUAC R | 441 | 3397 | | CASPER | 234 | 511 | |
| APALACHICOLA U | 521 | 2099 | | JACKSON | 522 | 1908 | | JOHNSTON | 511 | 3515 | | CHEYENNE | 189 | 392 | |
| DAYTONA BEACH | 580 | 2342 | | MERIDIAN | 503 | 1774 | | KOPOP R | 534 | 4215 | | LANDER | 247 | 625 | |
| FORT MYERS | 556 | 2340 | | MISSOURI | | | | KWAJALEIN | 530 | 4355 | | SHERIDAN | 176 | 366 | |
| JACKSONVILLE | 544 | 2189 | | COLUMBIA REGIONAL | 335 | 1084 | | MAJUJO | 497 | 4048 | | | | | |
| KEY WEST | 576 | 3014 | | KANSAS CITY | 546 | 1664 | | PAGO PAGO | 423 | 3779 | | | | | |
| LAKELAND U | 538 | 2238 | | ST JOSEPH | 473 | 1570 | | PONAPE R | 476 | 3962 | | | | | |
| MIAMI | 596 | 2926 | | ST LOUIS | 360 | 1266 | | TRUK MOEN ISLAND | 525 | 4165 | | | | | |
| ORLANDO | 544 | 2531 | | SPRINGFIELD | 412 | 1124 | | WAKE | 554 | 4052 | | | | | |
| PENSACOLA | 542 | 2163 | | MONTANA | | | YAP R | 492 | 4048 | | | | | | |
| TALLAHASSEE | 482 | 1873 | | BILLINGS | 365 | 691 | | PENNSYLVANIA | | | | | | | |
| TAMPA | 563 | 2298 | | GLASSGOW | 236 | 617 | | ALLEN TOWN | 249 | 689 | | | | | |
| WEST PALM BEACH | 580 | 2564 | | GREAT FALLS | 197 | 559 | | ERIE | 119 | 381 | | | | | |
| GEORGIA | | | | HAVRE | 179 | 486 | | HARRISBURG | 333 | 986 | | | | | |
| ATHENS | 424 | 1504 | | HELENA | 139 | 315 | | PHILADELPHIA | 367 | 1050 | | | | | |
| ATLANTA | 442 | 1422 | | KALISPELL | 48 | 193 | | PITTSBURGH | 213 | 682 | | | | | |
| AUGUSTA | 438 | 1565 | | MILES CITY | 358 | 917 | | SCRANTON | 159 | 479 | | | | | |
| COLUMBUS | 504 | 1827 | | MISSOULA | 104 | 330 | | WILLIAMSPORT | 237 | 674 | | | | | |
| MACON | 536 | 1892 | | NEBRASKA | | | | RHODE ISLAND | | | | | | | |
| ROME | 442 | 1384 | | GRAND ISLAND | 401 | 1246 | | BLOCK ISLAND | 208 | 406 | | | | | |
| SAVANNAH | 528 | 1907 | | LINCOLN U | 410 | 1374 | | PROVIDENCE | 237 | 625 | | | | | |
| | | | | NORFOLK | 311 | 1035 | | SOUTH CAROLINA | | | | | | | |
| | | | | | | | | CHARLESTON | 487 | 1837 | | | | | |
| | | | | | | | | CHARLESTON U | 526 | 1946 | | | | | |
| | | | | | | | | COLUMBIA | 513 | 1947 | | | | | |
| | | | | | | | | GRNVILLE SPRTNBRG | 378 | 1358 | | | | | |

DATA FOR THIS MONTH ARE PRELIMINARY
U indicates Urban, R indicates Rural, sites.

HURRICANE CELIA, July 30–August 5

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Extreme hurricane Celia, following in the wake of Carla (1961) and Beulah (1967), became the third major storm to hit the Texas Gulf Coast in the past ten years. Celia was unique and severe. Measured in dollars, she was the costliest storm in the state's history. Sustained wind speeds reached 130 m.p.h., but it was great bursts of kinetic energy of short duration that appeared to cause the severe damage. Wind gusts of 161 m.p.h. were measured at the Corpus Christi National Weather Service Office, and near Aransas Pass peak gusts were estimated as high as 180 m.p.h. Celia caused, both directly and indirectly, 24 deaths, and total property and crop damage in Texas was estimated at \$453.8 million.

DEVELOPMENT AND INTENSIFICATION

Celia was spawned by a disturbance which originated over Africa. The system moved rapidly across the Atlantic and began to organize a closed wind circulation between Swan Island and the Cayman Islands on the 30th. By evening a depression had formed.

The weak cyclone moved northwestward at about 10 m.p.h., crossing the western tip of Cuba on the evening of the 31st and entering the Gulf of Mexico. Western Cuba was lashed with showers and squalls of up to 50 m.p.h., and five persons were reported killed. The depression intensified rapidly over the warm waters of the Gulf, and an Air Force reconnaissance plane found it had increased to tropical storm intensity on the morning of August 1; Celia had been born.

The storm continued to move on a northwesterly track as further intensification occurred. At 4 p.m. (CST) on the 1st, Celia was upgraded to a hurricane near 24° N., 87° W., or about 410 mi. south of Pensacola, Fla. Later that evening the 975 mb. tempest was packing winds in excess of 100 m.p.h. near the center. The small intense hurricane churned across the Gulf (fig. 1) on the 2d and took aim on the southern Texas Coast. By midnight the central pressure had risen to 998 m., and the maximum winds had dropped to 90 m.p.h.

The 15 hour period prior to landfall brought a sudden deepening of the cyclone; the central pressure fell at least 39 mb. during this period, and the maximum sustained winds increased to speeds in excess of 130 m.p.h. At 4 a.m. (CST) on the 3d hurricane warnings were established for the south Texas coast; at this time the hurricane was about 200 miles east-southeast of Corpus Christi. Evacuation procedures were then begun on the Texas Coastal Bend area. Figure 2 shows Celia a scant 8 1/2 hours before making landfall.

LANDFALL

Hurricane Celia crossed the Texas coastline midway between Corpus Christi and Aransas Pass about 3:30 p.m. (CST) on August 3d; her eye, which was then about 30 mi. in diameter, enclosed Aransas Pass and part of Corpus Christi. Celia moved west-northwestward across southern Texas with the storm center passing near Mathis, Fowerton, Cotulla, Crystal City, and Del Rio. Shortly after 10:00 p.m. on the 3d, with the storm center over the west central portion of McMullen County, sustained winds most likely were no longer of hurricane force, although peak gusts reached 89 m.p.h. as far west as Del Rio. Reduced to a tropical storm, the lower portion of Celia broke up over the mountains

of northern Mexico around noon of August 4. The tropical depression continued to meander westward across the Big Bend while the upper circulation moved northwestward into southwestern New Mexico.

WINDS

The highest sustained wind speed measured during hurricane Celia was 130 m.p.h. from the north-northeast and occurred from 3:02 to 3:05 p.m. on August 3, at Aransas Pass. A peak gust of 161 m.p.h. from the southwest was observed at the Corpus Christi National Weather Service Office, Corpus Christi International Airport, at 4:28 p.m. Peak gusts estimated at 180 m.p.h. were reported at both Aransas Pass and Robstown.

Robert L. Herndon, Cooperative Weather Observer at Aransas Pass, observed wind gusts to 150 m.p.h. from the north-northeast prior to the passage of the hurricane eye. At 3:05 p.m., his anemometer blew away. He reported that the "second half" of the storm had much higher winds, and estimated the peak gusts at 180 m.p.h. from the southwest at 4:00 p.m. He observed tremendous destruction during this period of extreme southwest winds that did not exist during the first half of the storm. Mr. Herndon stated also that after the passage of the eye many "durations of wind speed" (sustained speeds) could have exceeded the 130 m.p.h. measured to the right of the storm's center.

At Robstown peak wind gusts were estimated at 180 m.p.h. from the west-southwest. This estimate was based on the fact that one of four oil derricks erected at the Robstown High School stadium for lighting towers was blown down. The derricks were new, having just been erected during the summer (1970) and were engineered to withstand winds of 175 m.p.h. The tower blown down was at the southwest corner of the stadium.

At Robstown, "old timers" who had been through every hurricane there since 1900 described the destruction as the worst wind damage they had ever seen.

After moving inland Celia maintained her high winds for an unusually long time. As the storm passed near La Pryor (160 mi. inland), maximum gusts were estimated as high as 110 m.p.h. On the morning of the 4th, Del Rio was hit with sustained winds of 60 m.p.h. with gusts to 89 m.p.h.

The distribution of maximum winds is shown in figure 3; climatological extremes recorded at various stations are shown in Table 1; and figure 4 shows the swath of destruction Celia left behind.

PRESSURE

Celia's lowest pressure was recorded shortly after the storm made landfall. A minimum pressure of 943 mb. (27.85 in.) was recorded on an aneroid barometer owned by Percy Kennedy of Ingleside. Mr. Kennedy reported that Ingleside was in the eye of the hurricane for approximately 40 minutes. Mr. Kennedy's barometer was compared with the Corpus National Weather Service's portable precision aneroid barometer on the 7th. Provided the correction found at a station reading of 1014 mb. is valid at the lower pressure, the corrected sea level pressure is 945 mb. (27.89 in.)

The Cooperative Weather Observer at Aransas Pass recorded a minimum station pressure of 949 mb. (28.03 in.) at 3:45 p.m. on the 3d. The station is 18 feet above mean sea level. The Central Power and Light Station at Neuces Bay (Corpus Christi) recorded

HURRICANE CELIA, Cont'd.

a sea level pressure of 950 mb. (28.05 in.).

STORM SURGE

The highest tides generated along the Texas coast by Hurricane Celia were 9.2 feet above mean sea level and 9.0 feet above mean sea level, at Port Aransas Beach and Port Aransas Jetty, respectively. These occurred about 1:40 p.m. on August 3. A tide gage on Mustang Island recorded a high tide of 7.9 feet above mean sea level. Elsewhere, highest tides were generally four to six feet along the Texas coast from Corpus Christi Bay to Galveston Bay. In Corpus Christi Bay, a high tide of 4.9 feet above mean sea level was recorded at the Ship Channel at 5:30 p.m.

Minor flooding occurred at Port Aransas and in low lying areas from Corpus Christi Bay to Galveston Bay. Property damage caused by these relatively low storm surges was mostly to boats and piers. The damage was insignificant when compared to that caused by winds.

RAINFALL

The torrential rains and massive flooding over thousands of square miles that so often accompany tropical storms did not occur with hurricane Celia. Heavy rains of six to eight inches were confined to Nueces and San Patricio Counties and to the southern portion of Aransas County. The majority of the rain fell in a period of less than 24-hours. A storm total of 8.00 inches (estimated) fell at the U. S. Naval Air Station at Corpus Christi; 7.24 inches fell at Robstown; 7.00 inches at Gregory; 6.50 inches at Aransas Pass, and 6.38 inches fell at the National Weather Service Station at Corpus Christi International Airport.

Across southern Texas the band of moderately heavy rains was unusually narrow. With few exceptions, rains of 2.00 inches or more were confined to an area only 50 miles to either side of the hurricane center.

TORNADOES

A total of eight tornadoes are known to have occurred in Texas in association with hurricane Celia - a number considerably less than the 115 tornadoes which accompanied hurricane Beulah across southern Texas in 1967; and also less than the 26 that accompanied hurricane Carla in 1961. A review of the information available reveals that most of the tornadoes appeared to be small funnels that remained on the ground for only a short time. Two tornadoes moved from north to south; while one moved from northeast to southwest; the movements of the other five were not known. One of the tornadoes was responsible for one of the deaths attributed to hurricane Celia. It struck a man's home at Lake Corpus Christi, and he was fatally injured when struck by the flying debris. In comparison to the damage caused by hurricane winds, tornado damage was very minor.

DEATHS AND DAMAGES

Monetarily, Celia was the fourth costliest hurricane in United States history, exceeded only by Betsy (1965), \$1.42 billion; Camille (1969), also \$1.42 billion; and Diane (1955), \$831.7 million. In Texas, total property damage was estimated at \$444.9 million and crop damage at \$8.8 million. Property losses were heavy due to the fact that the hurricane unleashed its greatest fury on a major urban area. Carla in 1961 wrought devastation primarily with mountainous storm tides; Beulah in 1967 inundated thousands of square miles with 20 to 30 inch rains; Celia did it all with winds.

The remarkable fact is that, measured in terms of total deaths, Celia ranks far below the other hurricanes mentioned above. Celia took 11 lives in Texas and 5 in Cuba. Deaths indirectly caused by Celia occurred along the Florida Panhandle, where 8 people drowned in heavy surf generated by Celia, then approximately 300 miles away in the center of the Gulf of Mexico. The extremely low death/damage ratio can be attributed to the fact that Celia did not generate a severe storm surge or floods as did the others, and the success of the disaster preparedness measures taken by the people in the hurricane's path. At least 466 people were injured in Texas, not including hundreds of minor cuts, scratches and bruises.

The American Red Cross estimated that 48,316 Texas families suffered losses. In the Texas Coastal Bend 1,058 homes were destroyed, 5,397 homes suffered major damage, and 28,556 suffered minor damage. Destroyed or severely damaged were 1,305 trailers, 96 boats, and 391 farm buildings. The 12,570 ton Liberian freighter TRADE CARRIER (fig. 5) was forced ashore and grounded, and the West German motorship JEANETTE was torn from her moorings and left high on a sand bank. The 6,520 ton Norwegian vessel BELEVELYN was damaged at Corpus Christi.

Damage was severe in Nueces and San Patricio Counties, and heavy damage extended northward to include most of Aransas County, and the southern halves of Refugio and Bee Counties, and westward to include George West in Live Oak County and Orange Grove in Jim Wells County (fig. 4). To the south the northern portion of Kleberg County suffered only light damage. Eighty-five percent of the total property damage occurred in Corpus Christi. Nueces County bore 74 percent of the total storm damage (property and crops), while Nueces and San Patricio Counties combined accounted for 91 percent of the total storm damage in Texas. President Nixon declared 12 Texas counties disaster areas so that federal funds would be available for relief. They were: Nueces, San Patricio, Aransas, Refugio, Jim Wells, Live Oak, Bee, Atascosa, McMullen, Coliad, Karnes, and Wilson. Table 2 gives a breakdown of the damage by county.

At Corpus Christi, the devastation was unlike that of most hurricanes, which center their damage around the edge of the water; almost every building in the city seemed to have been hit. An estimated 90 percent of the downtown buildings suffered major damage (fig. 6). Some were destroyed. Few if any residences escaped some damage; about one-third suffered major damage or were destroyed. Along the city's Bay-Front Drive, the many hotels and motels were particularly hard hit. Automobiles in parking lots had their windshields shattered. The downtown area fared just as poorly. Windows were smashed and outside wall panels were blown away. Some buildings appeared to have exploded, while others lost complete walls so that they appeared to be open sided doll houses with everything inside intact. The Woolco building--six-inch, poured concrete slabs with reinforced steel--collapsed along the front wall and the roof fell in. The wall was displaced outward from the building, but there was no evidence of an explosion. Both of Corpus Christi's radio-television transmitting towers fell. One, 40 stories tall, crushed the transmitting house below, and two men inside narrowly escaped death. The second dropped across a major thoroughfare, crushing three empty automobiles. Automobiles in the streets lay overturned or buried under piles of building debris. Celia refused to discriminate between plush homes on Ocean Drive and shotgun

HURRICANE CELIA, Cont'd.

houses on 25-foot lots. Large, expensive homes were twisted on their foundations, cracking brick walls all the way down. Residential damage was primarily to roofs and windows. In many instances the roofs were lifted off cleanly and deposited at a considerable distance from the houses. Many of the smaller, older homes came through the storm with less damage than did newer construction. Old-fashioned, better-built brick homes - particularly those built in the early part of the century - survived best. Most seemed to have suffered only minor damage.

Instead of rising, Corpus Christi Bay dropped 4 1/2 feet momentarily, causing tremendous hull damage to boats. Eleven persons took an unanticipated wild ride in Corpus Christi Bay aboard the 85-foot CAP. CLARK'S SHOWBOAT. This replica of a Mississippi riverboat broke free when hurricane winds demolished the dock to which she was tied. When the hurricane pushed the water out of the Bay, those on board could have walked to the shore, except for the force of the wind. When the eye of the hurricane passed, the water came roaring back, and the wild ride continued. The boat was badly damaged, but missed smashing up on the breakwater by 72 inches.

Damage was severe at Port Aransas, Aransas Pass, Gregory, Ingleside, Portland, and Taft. Portland was probably the worst hit of the small towns on the north side of Corpus Christi Bay, with about 90 percent of the town damaged (fig. 7). At Gregory, the wind blew six railroad cars off the track, some 150 feet or more. Two trains were derailed by the winds. Railroad tracks were peeled from their roadbeds - tracks with ties attached were twisted bottom side up.

Port Aransas, on Mustang Island, which took the full brunt of hurricane Celia, suffered damage to at least 75 percent of its buildings. Most of the damage was caused by wind, not water. Fifteen shrimp trawlers sank in the harbor. Miraculously, the historic old Tarpon Inn, (fig. 8), built in 1890, came through the storm in comparatively good shape with only minor damage. Only four windows were blown out, and it appeared that water got about a foot deep on the ground floor, getting the carpets wet. A shop down the street was picked up by the winds and set down right in front of the towering white hotel.

Padre Island, often the hardest hit area when a hurricane wallops the Coastal Bend, again took a beating but nothing to compare with hurricanes Carla and Beulah. Water damage caused by high tides was not there. A few buildings on the Padre Island gateway were demolished; others were almost untouched, and still others had mostly roof damage and pier and boat breakage. One of the most heavily damaged buildings on Padre Island was the large Million Dollar Inn. Wind blew out the glass walls and doors and water damage (wind blown) was heavy in virtually every room. Permanent and vacation islands homes appeared generally better off than those on the mainland, percentage-wise at least, as the main damage was to a few roofs.

Damage to Southwestern Bell Telephone facilities in the Corpus Christi area was estimated at \$10 million. Property losses of General Telephone Company, which serves about seven small towns in the Corpus Christi metropolitan area was estimated at \$700,000.

Military installation damage of \$5 million occurred at the U. S. Army's helicopter repair center in Corpus Christi and damage to the Naval Air Station was estimated at \$35 million. Around 800 of the 900 family housing units at the Naval Air Station were rendered

unusable.

Approximately three percent of the Nation's oil refining capacity was in Celia's path. At Ingleside, two large Sun Oil Company storage tanks burned, as did one belonging to the Humble Oil and Refining Company - all were believed to be hit by lightning. Loss to oil companies was estimated at \$17 million. Offshore producing facilities of the oil companies were not damaged severely, and onshore drilling installations suffered mostly minor damage.

Beyond McMullen County, hurricane Celia caused relatively little damage in its trek across southern Texas - with two exceptions - moderate damage occurred in southern Frio County and at Del Rio. Winds that reached 89 m.p.h. in gusts caused property damage of \$1 million at Del Rio.

MOBILE HOMES.--The damage to mobile homes was fantastic (fig. 9). All over the coastal area, in the path of the hurricane, mobile homes were found split open, lying on their sides. Some were twisted into corkscrew shapes. Perhaps the nearest to total destruction of mobile home parks was to those northeast of the Corpus Christi International Airport where several hundred homes-on-wheels were ripped into small fragments and scattered hundreds of yards. Four mobile homes not so completely destroyed were left stacked one upon another. On North Beach in Corpus Christi, a concrete "deadman" anchoring a mobile home, was uprooted and tosses over the carpeted floor of the demolished trailer, contributing to its destruction. One mobile home was lifted cleanly off its moorings and smashed into the ground on its end a hundred yards away.

CROP DAMAGE ran from light on the fringe areas to total in the path of the hurricane. Total crop damage was estimated at \$8.8 million - a figure much lower than expected. Hardest hit crops were corn, sorghum and cotton. Much of the sorghum had been harvested but the remaining crop was extensively damaged. Both corn and cotton suffered heavy damage along the path of the storm. Most of the damage was inflicted on the open cotton with lesser damage being registered on large unopened bolls. Destruction of the corn crop was complete in some areas.

San Patricio County suffered the most crop damage - a total of \$2.6 million. San Patricio, Nueces and Live Oak Counties accounted for 71 percent of the total crop damage. Crops in the vicinity of Candelaria, in far away Presidio County, suffered heavy damage due to flooding from heavy rains. Rains of 2.43 inches broke levies which resulted in crops on about 450 acres being totally destroyed.

DAMAGE CHARACTERISTICS.--The pattern of damage left by Celia was unique. Most of the destruction was caused by extreme gusts of wind. These explosive bursts of kinetic energy left behind a succession of long streaks of debris (fig. 7). Between these streaks of heavy damage there were large areas where the flimsiest of homes suffered little or no damage. One subdivision in Taft saw almost all of its houses virtually destroyed, while an adjacent subdivision's homes lost only their roofs.

Most of the destruction in Corpus Christi was caused by extreme westerly gusts, all occurring in the course of about 15 minutes. These bursts of wind occurred to the left of the center and following the passage of the center, as opposed to the normal pattern of easterly wind damage in right semicircle of the storm. To the right of the center in Port Aransas and Aransas Pass the heaviest damage appeared to have occurred from

HURRICANE CELIA, Cont'd.

southerly or southeasterly gusts following the passage of the center. The areas of heavy damage showed no evidence of rotary motion.

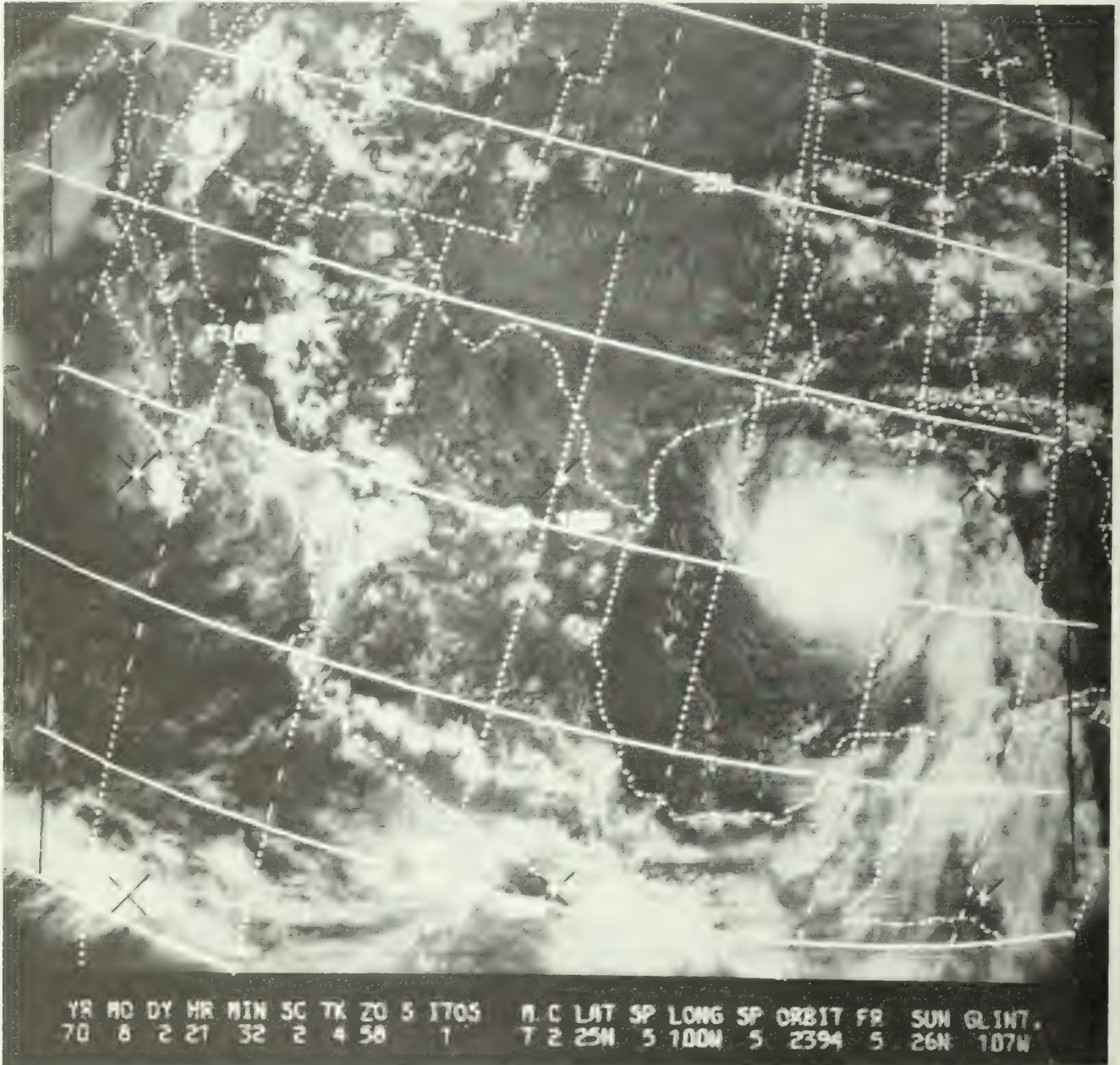


Figure 1. The ITOS 1 satellite catches Celia at 3:32 p.m. (CST) on the 2d. At this time her peak winds were estimated at 110 m.p.h.

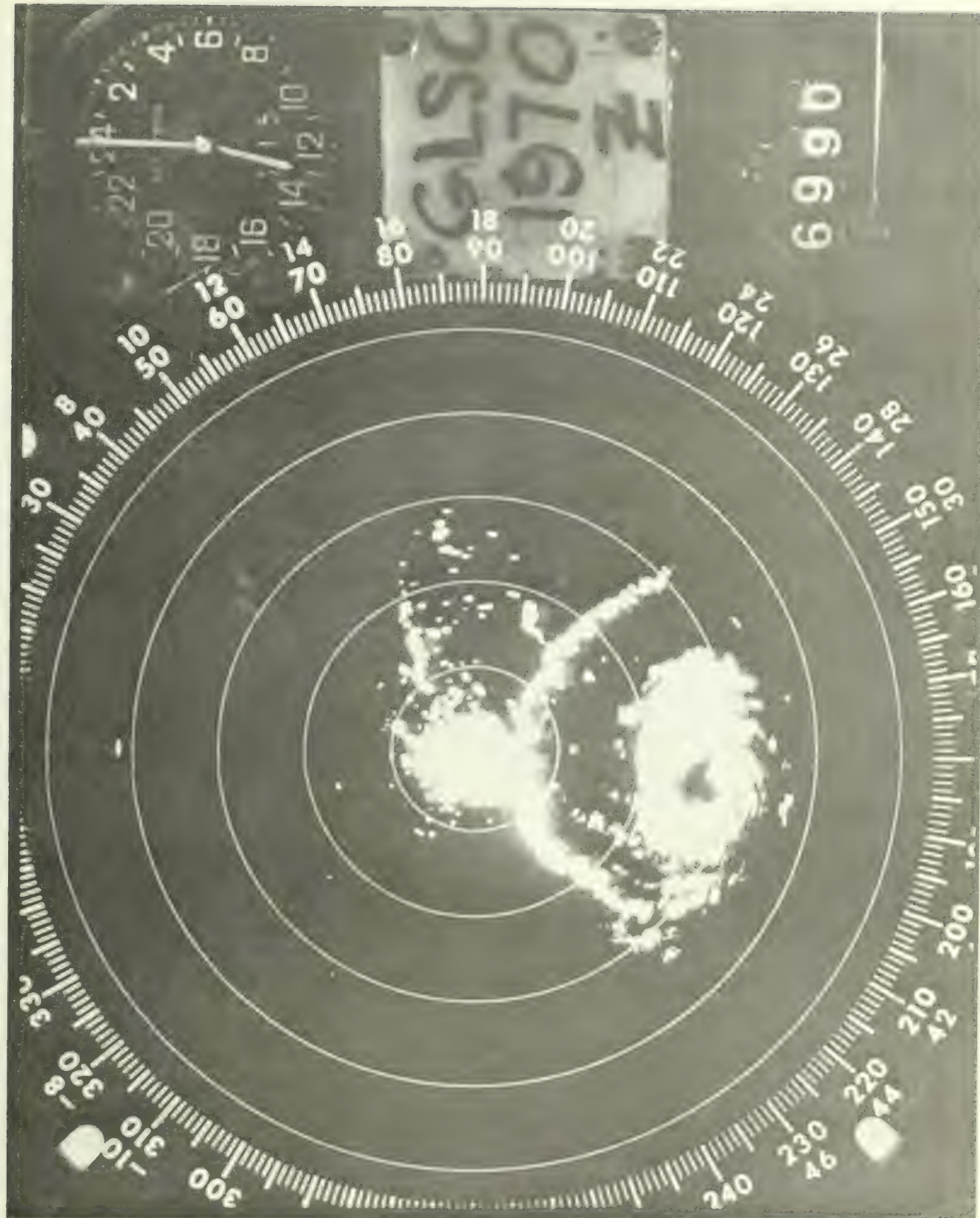


Figure 2. The Galveston, Tex., weather radar picks up Celia at 1300 on the 3d. Note the outer spiral band which is separated from the inner core of the hurricane by as much as 70 mi.

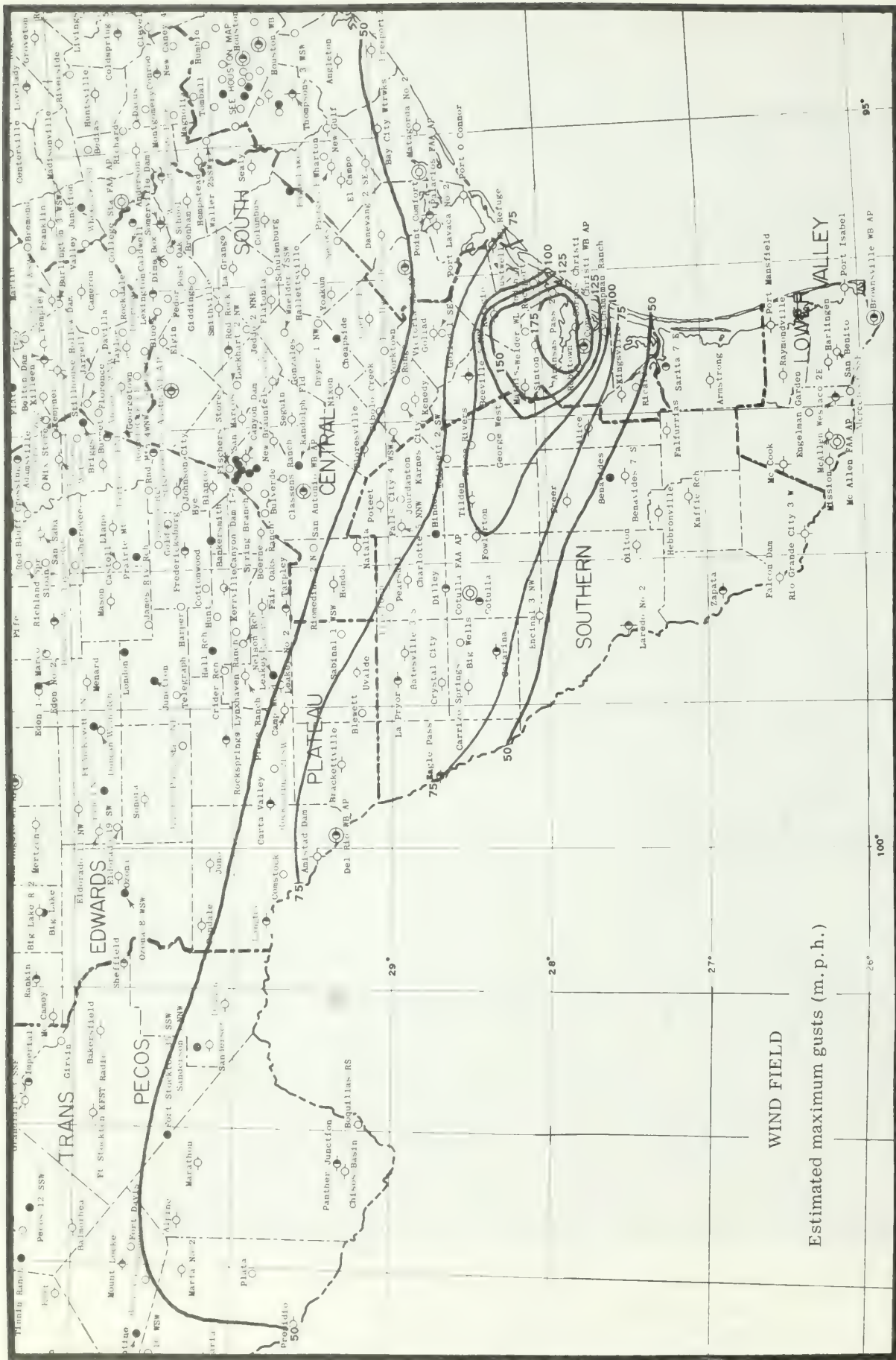


Figure 3. Isotachs of estimated maximum gusts (m.p.h.)

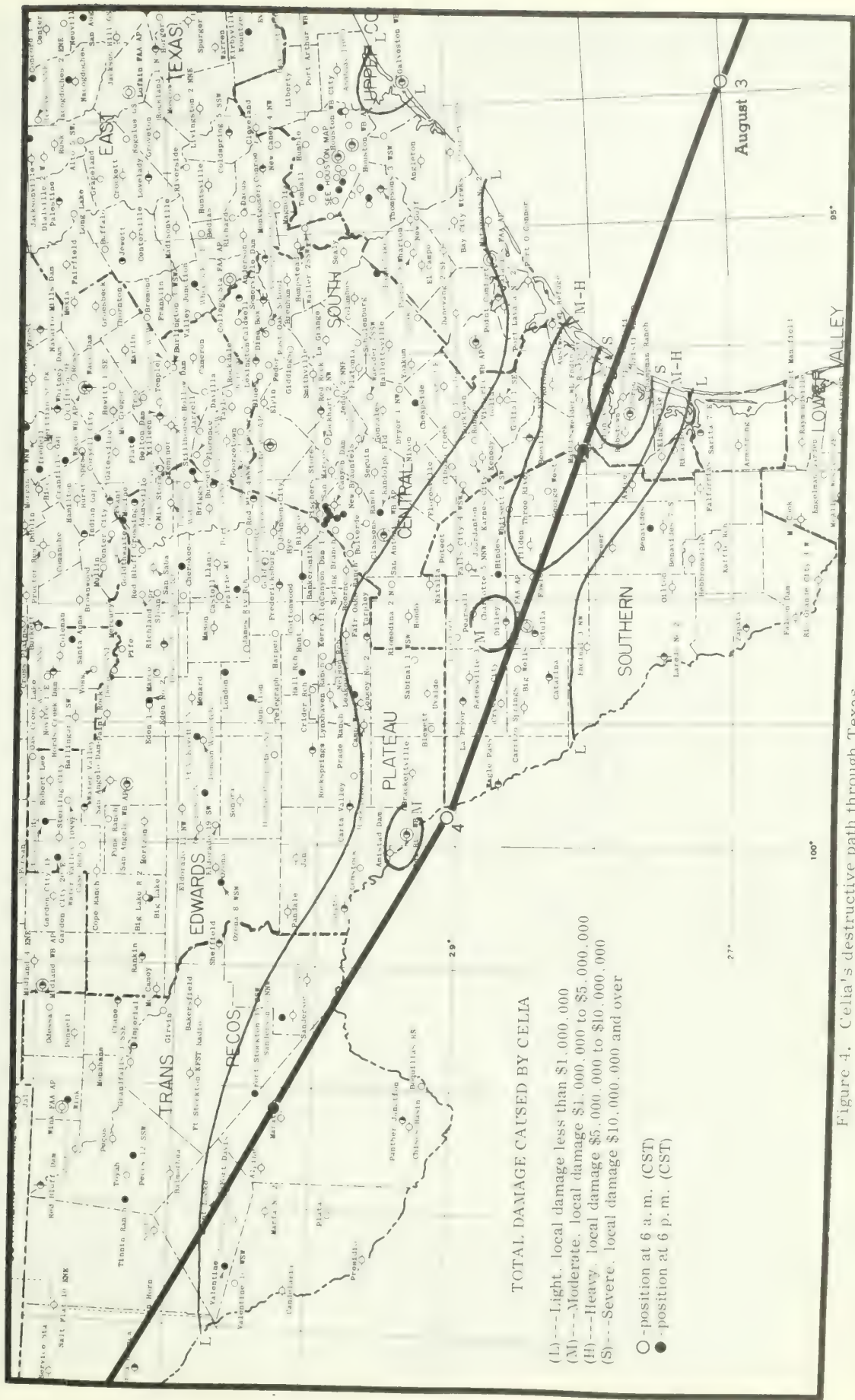


Figure 4. Celia's destructive path through Texas.



Figure 5. The Liberian freighter TRADE CARRIER was forced aground by Celia's winds. National Ocean Survey Photograph.

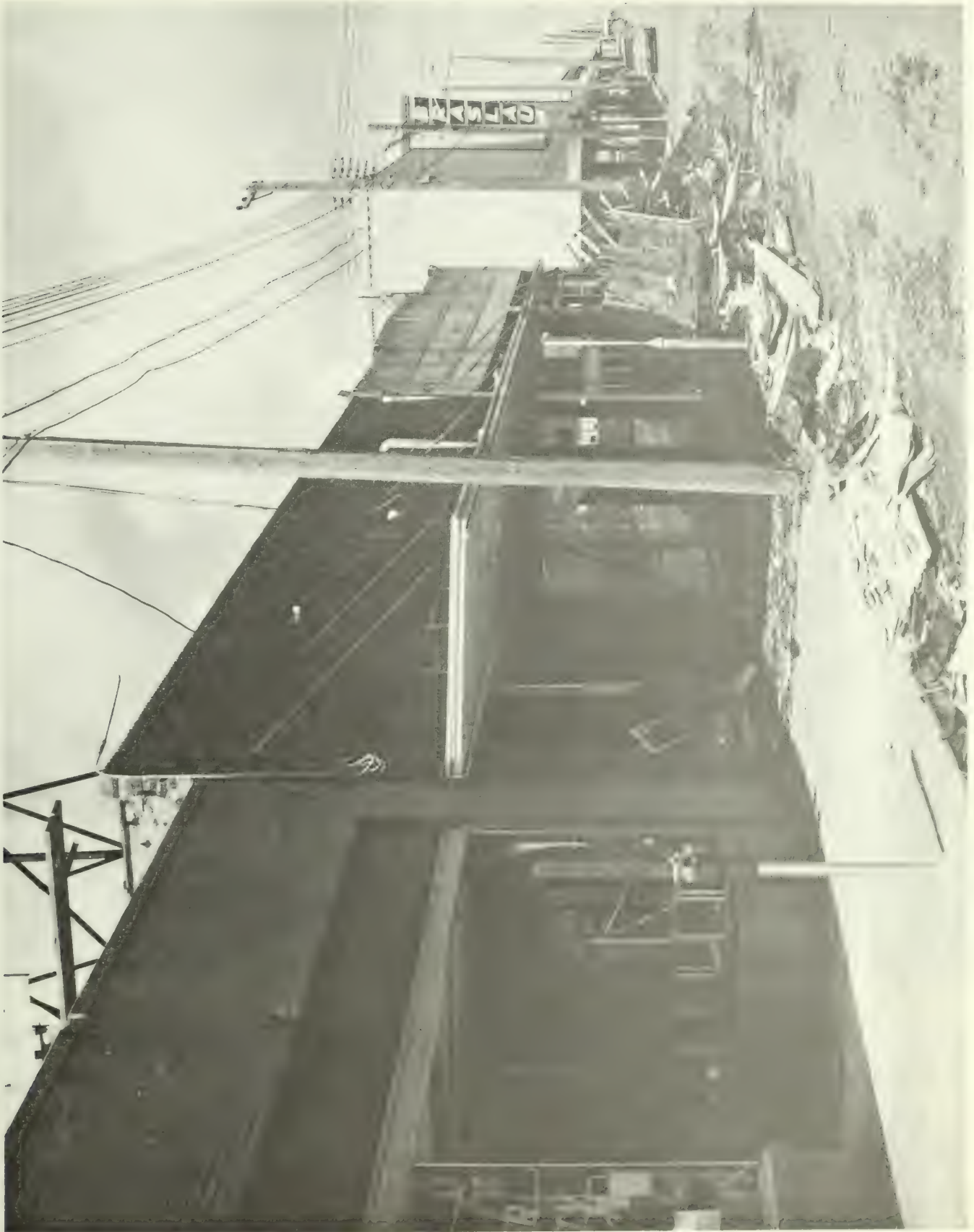


Figure 6. A downtown shopping street in Corpus Christi following the passage of Celia. National Ocean Survey Photograph.



Figure 7. A housing development in Portland shows the effect of Celia's winds. Note that some homes are relatively undamaged while their neighbors are demolished. National Ocean Survey Photograph.



Figure 8. Port Aransas was hard hit by Celia; the winds were strong enough to move entire buildings into the street. National Ocean Survey Photograph.



Figure 9. Celia left this trailer court in ruins. National Ocean Survey Photograph.

TABLE 1
 PREPARED BY THE NATIONAL DATA
 HURRICANE CENTER
 July 30-August 5, 1970

| Station | Date | Pressure
(inches) | | Wind
(miles per hour) | | | | Highest
Tide
(feet) | Time of
Tide | Sea
Roughness
(inches) | Remarks
P: Property
C: Crops |
|-----------------------|------|----------------------|-----------|--------------------------|-----------|------------|-----------|---------------------------|-----------------|------------------------------|---|
| | | Low | Time† | Fastest
Mile | Time† | Gusts | Time† | | | | |
| TEXAS | | | | | | | | | | | |
| Aug. | | | | | | | | | | | |
| ARANSAS COUNTY | | | | | | | | | | | |
| Aransas Pass | 3 | 28.03stn | 1545 | NNE 130 | 1505 | SW 180* | 1600 | 2.5 | 1600 | 6.50 | Anemometer blew away at 1505 CST. |
| Austwell Wild Life | 3 | | | N 65* | 1400 | 75* | | | | 1.10 | P: \$15,000. |
| Beckport | 3 | 28.84 | 1522 | SE 60 | 1540 | SE 96 | 1540 | 5.0 | 1600 | 1.85 | P: \$15,000,000. |
| ATASCOSA COUNTY | | | | | | | | | | | |
| Charlotte | 3 | | | NE 60* | 2300 | NE 60* | 2300 | | | 1.78 | C: Wind damage to all standing crops. |
| BEE COUNTY | | | | | | | | | | | |
| Beeville | 3 | | | N&NE 60* | 1100 | NE 75 | 2100 | | | 2.00 | P: \$500,000. C: \$200,000. |
| NWSE Chase Field | 3 | 29.01 | 1805 | NE 46 | 1700-1800 | E 68 | 1811 | | | 1.44 | |
| Skidmore | 3 | | | | | E 100+* | | | | 1.50 | P: Heavy. |
| BRAZORIA COUNTY | | | | | | | | | | | |
| Iowa Chem. - Freeport | 3 | 29.72 | 0500 | E 22 | 1130-1500 | E 37 | 1342 | 4.9 | 1200 | 0.85 | No damage. |
| CG Stn Freeport | 3 | 29.76 | 0630 | | | E 51 | 0716 | 4.0 | 1400 | 0.25 | No damage. |
| CALHOUN COUNTY | | | | | | | | | | | |
| Point Comfort | 3 | 29.70stn | 1400 | E 43 | 1518 | E 17 | 1515 | 4.5 MLW | | 0.40 | |
| Port O'Connor | 3 | | | ESE 50 | 1400 | SE 80 | 1445 | | | 1.14 | P: \$25,000. |
| Port O'Connor | 3 | | | | | | | | | | |
| CG Stn | 3 | | | NNE 65 | 1000 | | | | | | P: Boat Sheds: \$5,000. |
| Lavaca Bay Park | 3 | | | | | | | 5.8 | 1800 | | |
| GALVESTON CO. | | | | | | | | | | | |
| Galveston WSO | 3 | 29.83 | 0400 | SE 31 | 0856 | SE 41 | 0900 | 3.0 | | 0.37 | P: Small; minor damage to piers and small boats. |
| HARRIS COUNTY | | | | | | | | | | | |
| Baytown | 3 | | | | | | | 5.3 | 1800 | 1.20 | |
| Houston WSO IAH | 3 | 29.74stn | 1455 | E 20 | 1106 | E 38 | 1105 | | | 0.16 | Very minor property damage caused by tides in upper Galveston Bay. |
| JEFFERSON COUNTY | | | | | | | | | | | |
| Port Arthur WSO | 3 | 29.84 | 0300 | SE 23 | 1206 | SE 38 | 1207 | 2.5 | 0630 | 0.61 | No significant damage. Minor flooding in Sabine Pass; water and debris closed highway 87 between Sabine Pass and High Island. |
| JIM WELLS COUNTY | | | | | | | | | | | |
| Alice | 3 | | | NW&SW 70 | | SW 80* | 1900 | | | 3.63 | Eye of hurricane passed over Orange Grove about 1930-2000. |
| Sandia | 3 | | | | | S 160* | | | | 2.00 | Eye passed Sandia area about 1800. Wind came in sharp gusts. |
| LA SALLE COUNTY | | | | | | | | | | | |
| Cotulla FAA | 3-4 | 28.86stn | 2330 | N 36 | 2310 | N 68 | 2320 | | | 2.68 | P: Minor. |
| LIVE OAK COUNTY | | | | | | | | | | | |
| George West | 3 | | | | | SSE 100* | 2000-2100 | | | 0.81 | Eye about 10 mi south of George West. |
| Three Rivers | 3 | | | | | NE-NW 100* | | | | 1.38 | |
| McMULLEN COUNTY | | | | | | | | | | | |
| Tilden | 3 | | | | | NE-E 100* | 2100 | | | 1.56 | Eye of hurricane passed to south of Tilden. U.S. Navy Bombing Station in SW part of county reportedly measured wind speeds in excess of 100 m.p.h. P: \$750,000. C: \$25,000. |
| Tilden 14-S | 3 | | | | | N 100* | | | | 1.87 | |
| NUECES COUNTY | | | | | | | | | | | |
| Corpus Christi | 3 | 28.30 | 1600 | | | | | 4.9 | 1730 | | |
| Corpus of Eng. | 3 | 28.36 | 1600 | | | 143 | 1632 | | | | |
| Lipan St. CPL | 3 | 28.61 | 1535 | SSW 92 | 1555 | SSW 120 | 1555 | | | 8.00* | CPL: Central Power and Light Company. |
| Nueces Bay CPL | 3 | 28.05 | 1630-1700 | | | S 150* | 1630-1700 | | | | |
| WSO | 3 | 28.47 | 1628 | SW 125 | 1628 | SW 161 | 1628 | | | 6.38 | |
| Padre Island-Nat'l | 3 | 29.26 | 1400 | SW 63 | 1450 | SW 82 | 1450 | | | | F420 Anemometer. |
| Seashore | 3 | | | NNE 104 | 1433 | NNE 127 | 1433 | | | | F420 Anemometer. |
| Port Aransas CG | 3 | | | | | | | 9.2 | | | |
| Port Aransas Beach | 3 | | | | | | | 9.0 | | | |
| Port Aransas Jetty | 3 | | | | | | | 7.9 | 1340 | | |
| Mustang Island | 3 | | | | | | | | | | |
| Robstown | 3 | | | | | WSW 180* | | | | 7.24 | Wind estimate based on fact that oil derrick erected to withstand 175 m.p.h. winds was blown down. |
| REFUGIO COUNTY | | | | | | | | | | | |
| Austwell | 3 | 29.35 | 1400-1500 | N-E 85* | | N-E 85* | 0900-1700 | | | | Tide 3.0 feet below MLW. |
| Bayside | 3 | 29.03 | 1503 | E 110 | 1503 | E&SE 140* | 1503-1600 | 4.0 | 1415-1430 | 3.10 | P: \$150,000. C: \$200,000. |
| Refugio 3 mi S | 3 | 29.36 | 1550 | NNE 120 | | NNE 160* | | | | | Highest gust of 142 m.p.h. recorded before standard 4-cup anemometer blew away. Estimated highest gusts 150-160 m.p.h. |
| SAN PATRICIO CO. | | | | | | | | | | | |
| Gregory, Reynolds | 3 | 28.12 | 1550 | NNW 128 | 1520 | NNW 138 | 1515 | | | 7.00 | Eye lull, 30 minutes 1530-1600. Height of anemometer 80 feet. |
| Metal | 3 | | | | | N&S 160 | | | | 0.02 | Odem in eye of storm; calm for 15 minutes. |
| Odem | 3 | | | N 100* | | N 150 | | | | 2.23 | |
| Mathis | 3 | 27.89 | | | | | | | | | Small private barometer belonging to Percy Kennedy, 612 San Angelo St. compared with Weather Bureau portable precision barometer on 8/7/70. |
| Ingleside | 3 | | | | | | | | | | Portland in eye; dead calm for 30 minutes. |
| Portland | 3 | | | | | N&S 160* | 1530-1630 | | | 2.50 | P: \$5,000,000. C: \$500,000. Navy pilot reported a peak gust of 180 m.p.h. while flying in vicinity of Taft. |
| Taft | 3 | 28.10 | 1634 | | | | | | | 4.0* | |
| UVALDE COUNTY | | | | | | | | | | | |
| Uvalde | 3 | 29.40 | 0100 | ESE 45* | 0100-0300 | ESE 75* | 0300 | | | 1.17 | P: \$100,000. C: \$250,000. |
| VAL VERDE CO. | | | | | | | | | | | |
| Amistad Dam | 3 | | | E 60 | 0630 | E 80* | 0630 | | | 1.92 | Several trees broken off at ground. |
| Del Rio WSO | 3 | 29.36 | 0555 | ESE 60 | 0610 | ESE 89 | 0610 | | | 1.17 | P: \$1,000,000. |
| VICTORIA COUNTY | | | | | | | | | | | |
| Victoria WSO | 3 | 29.66 | 1600 | ENE 35 | 1445 | E 48 | 1443 | | | 0.08 | No damage. |
| ZAVALA COUNTY | | | | | | | | | | | |
| Crystal City | 3 | | | SSE 40* | 0200 | SSE 60* | 0200 | | | 2.34 | |
| La Pryor | 3-4 | | | NW 100* | 2230 | NE 110* | 0100 | | | 2.00 | P: Heavy. |

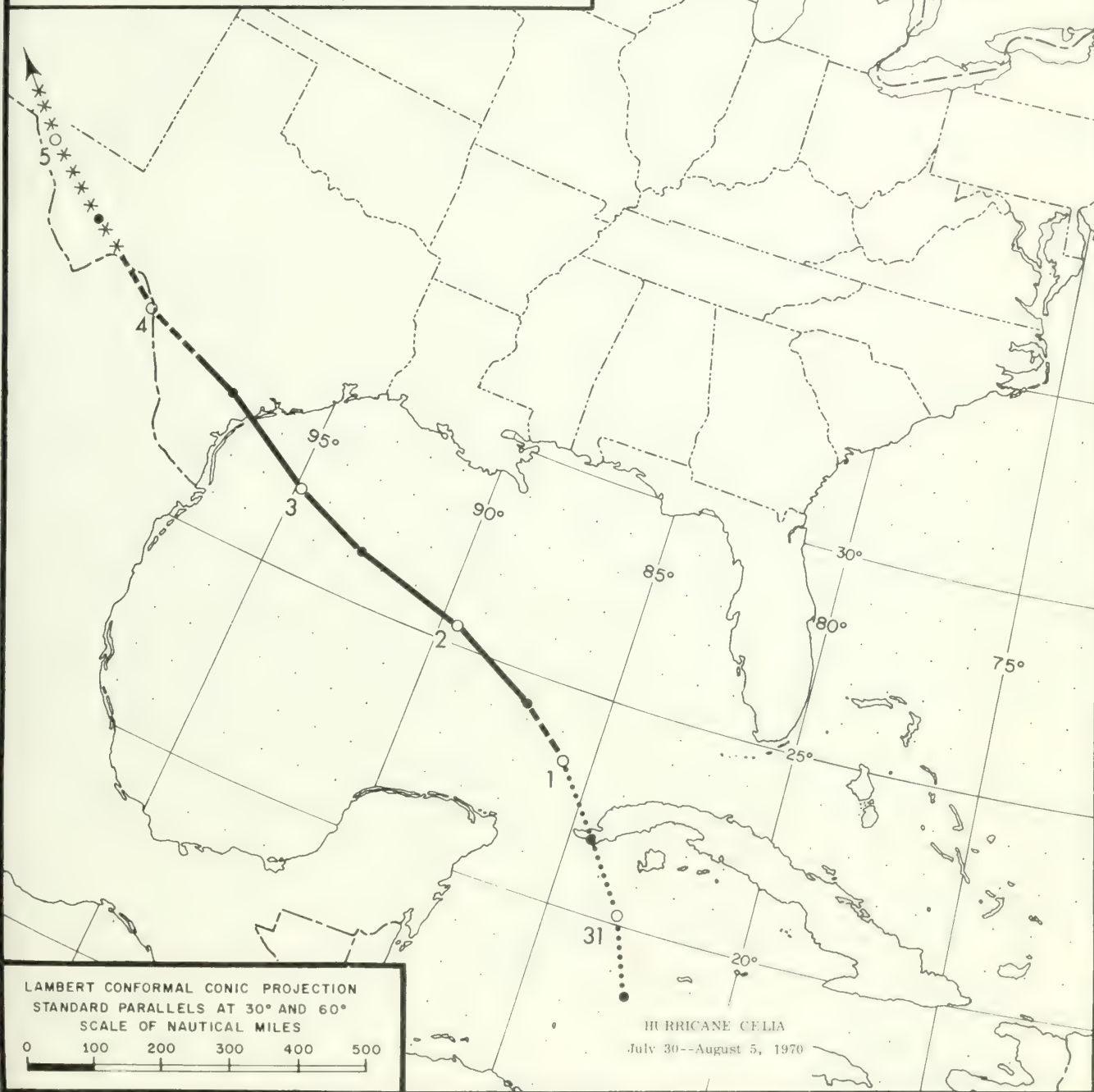
*Estimated
 *Above mean sea level
 †Central Standard Time

TABLE 2

DAMAGE TOTALS IN TEXAS

| County | Property | Crops | Total |
|--------------|--------------|-----------|--------------|
| Aransas | \$ 1,458,000 | \$ 25,000 | \$ 1,483,000 |
| Atascosa | 63,000 | 19,000 | 82,000 |
| Bandera | 0 | 0 | 0 |
| Bee | 4,232,000 | 428,000 | 4,660,000 |
| Bexar | 0 | 0 | 0 |
| Brazoria | 0 | 0 | 0 |
| Brewster | 50,000 | 0 | 50,000 |
| Calhoun | 30,000 | 0 | 30,000 |
| Cameron | 0 | 0 | 0 |
| Crockett | 0 | 0 | 0 |
| DeWitt | 0 | 0 | 0 |
| Dimmit | 50,000 | 25,000 | 75,000 |
| Duval | 0 | 0 | 0 |
| Edwards | 0 | 0 | 0 |
| Frio | 3,997,000 | 107,000 | 4,104,000 |
| Galveston | 5,000 | 0 | 5,000 |
| Goliad | 50,000 | 50,000 | 100,000 |
| Gonzales | 0 | 0 | 0 |
| Guadalupe | 0 | 0 | 0 |
| Harris | 5,000 | 0 | 5,000 |
| Hudspeth | 5,000 | 0 | 5,000 |
| Jackson | 0 | 0 | 0 |
| Jefferson | 0 | 0 | 0 |
| Jim Wells | 3,880,000 | 530,000 | 4,410,000 |
| Karnes | 50,000 | 50,000 | 100,000 |
| Kenedy | 0 | 0 | 0 |
| Kinney | 50,000 | 50,000 | 100,000 |
| Kleberg | 0 | 0 | 0 |
| La Salle | 198,000 | 31,000 | 229,000 |
| Lavaca | 0 | 0 | 0 |
| Live Oak | 9,850,000 | 1,525,000 | 11,375,000 |
| McMullen | 2,000,000 | 25,000 | 2,025,000 |
| Matagorda | 5,000 | 5,000 | 10,000 |
| Maverick | 50,000 | 1,000 | 51,000 |
| Medina | 25,000 | 79,000 | 104,000 |
| Nueces | 332,100,000 | 2,100,000 | 334,200,000 |
| Presidio | 3,000 | 100,000 | 103,000 |
| Real | 3,000 | 0 | 3,000 |
| Refugio | 7,908,000 | 425,000 | 8,333,000 |
| San Patricio | 77,525,000 | 2,624,000 | 80,149,000 |
| Terrell | 5,000 | 0 | 5,000 |
| Uvalde | 125,000 | 250,000 | 375,000 |
| Val Verde | 1,002,000 | 0 | 1,002,000 |
| Victoria | 0 | 0 | 0 |
| Webb | 0 | 0 | 0 |
| Willacy | 0 | 0 | 0 |
| Wilson | 5,000 | 0 | 5,000 |
| Zavala | 195,000 | 400,000 | 595,000 |
| Total | 444,924,000 | 8,849,000 | 453,773,000 |

- Tropical Depression (development) stage
- Tropical storm stage
- Hurricane stage
- +++++ Extratropical stage
- ***** Depression (dissipation) stage
- Position at 7:00 a.m. E.S.T.
- Position at 7:00 p.m. E.S.T.



LAMBERT CONFORMAL CONIC PROJECTION
STANDARD PARALLELS AT 30° AND 60°
SCALE OF NAUTICAL MILES

0 100 200 300 400 500

HURRICANE CELIA

July 30--August 5, 1970

STORM SUMMARY

AUGUST 1970

| STATE | TORNADOES | | | | | HAILSTORMS | | | | WINDSTORMS | | | | LIGHTNING | | | | + HEAVY SNOWSTORMS
AND BLIZZARDS | | | | # ICE STORMS | | | | Ø ALL OTHER | | | |
|-------------------|-----------|------|--------|----------|--------|------------|----------|---------------|-------|------------|----------|---------------|-------|-----------|----------|---------------|-------|-------------------------------------|----------|---------------|-------|--------------|----------|---------------|-------|-------------|----------|---------------|-------|
| | NUMBER | DAYS | DEATHS | INJURIES | DAMAGE | DEATHS | INJURIES | DAMAGE | | DEATHS | INJURIES | DAMAGE | | DEATHS | INJURIES | DAMAGE | | DEATHS | INJURIES | DAMAGE | | DEATHS | INJURIES | DAMAGE | | DEATHS | INJURIES | DAMAGE | |
| | | | | | | | | PROP.
ERTY | CROPS | | | PROP.
ERTY | CROPS | | | PROP.
ERTY | CROPS | | | PROP.
ERTY | CROPS | | | PROP.
ERTY | CROPS | | | PROP.
ERTY | CROPS |
| Alaska * | 1 | 1 | 0 | 0 | 4 | | | | | 0 | 0 | 4 | 0 | | | | | | | | | | | 0 | 0 | 4 | 0 | | |
| Alaska * | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 9 | 5 | 3 | | | 3 | 0 | | | | | | | 0 | 0 | 5 | 4 | | |
| Arkansas | 1 | 1 | 0 | 0 | 3 | | | | | 0 | 0 | 5 | 0 | 1 | 4 | 0 | 0 | | | | | | | | | | | | |
| California | | | | | | | | | | 0 | 0 | 4 | 0 | 0 | 0 | 4 | 0 | | | | | | | | | | | | |
| Colorado | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | | 0 | 1 | 0 | 0 | 0 | 4 | 0 | | | | | | | 0 | 0 | 5 | 0 | | |
| Connecticut | | | | | | | | | | 0 | 0 | 1 | 0 | 0 | 0 | 4 | 0 | | | | | | | | | | | | |
| Delaware | | | | | | | | | | 0 | 0 | 3 | 0 | | | | | | | | | | | | | | | | |
| Florida | 7 | 4 | 0 | 0 | 4 | | | | | 0 | 0 | 4 | 0 | 1 | 1 | 3 | 0 | | | | | | | 8 | 0 | 0 | 0 | | |
| Georgia | | | | | | | | | | 0 | 0 | 4 | 0 | 1 | 0 | 0 | 0 | | | | | | | 0 | 0 | 6 | 3 | | |
| Hawaii * | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Idaho | | | | | | 0 | 0 | 3 | 4 | 0 | 0 | 3 | 2 | 1 | 2 | 6 | 0 | | | | | | | | | | | | |
| Illinois | | | | | | | | | | | | | | 0 | 5 | 0 | 0 | | | | | | | | | | | | |
| Illinois | | | | | | | | | | | | | | 1 | 0 | 0 | 0 | | | | | | | | | | | | |
| Iowa | | | | | | 0 | 0 | 4 | 4 | 0 | 3 | 5 | 5 | 0 | 0 | 4 | 0 | | | | | | | 0 | 0 | 5 | 5 | | |
| Kansas | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 3 | 4 | 0 | 0 | 1 | 5 | 3 | 0 | 0 | 5 | 0 | | | | | | | | | | | |
| Kentucky | | | | | | 0 | 0 | 2 | 2 | 0 | 0 | 5 | 0 | 1 | 0 | 5 | 0 | | | | | | | 0 | 0 | 2 | 2 | | |
| Louisiana * | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Maine | | | | | | 0 | 0 | 0 | 3 | 0 | 0 | 4 | 0 | 0 | 0 | 4 | 0 | | | | | | | 0 | 0 | 4 | 0 | | |
| Maryland | 1 | | | | | 0 | 0 | | | 0 | 0 | 3 | 0 | 0 | 0 | 4 | 0 | | | | | | | 0 | 0 | 4 | 0 | | |
| Massachusetts | 3 | 3 | 0 | 0 | 4 | 0 | 0 | 1 | 4 | 0 | 3 | 5 | 3 | 0 | 7 | 5 | 0 | | | | | | | 0 | 0 | 4 | 0 | | |
| Michigan | | | | | | 0 | 0 | 3 | 4 | 0 | 0 | 4 | 0 | 0 | 2 | 5 | 0 | | | | | | | 0 | 0 | 4 | 0 | | |
| Minnesota | | | | | | 0 | 0 | 0 | 5 | 2 | 0 | 5 | 2 | 0 | 0 | 4 | 0 | | | | | | | | | | | | |
| Mississippi | 1 | 1 | 0 | 0 | 0 | | | | | 0 | 0 | 2 | 0 | 2 | 3 | 0 | 0 | | | | | | | 0 | 0 | 2 | 2 | | |
| Missouri | 1 | 1 | 0 | 3 | 4 | | | | | 0 | 1 | 4 | 0 | 0 | 0 | 4 | 0 | | | | | | | | | | | | |
| Montana | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 2 | 4 | 0 | 0 | 2 | 2 | 0 | 0 | 2 | 2 | | | | | | | | | | | | |
| Nebraska | 2 | 1 | 0 | 0 | 5 | 0 | 0 | 5 | 6 | 1 | 15 | 6 | 6 | 1 | 0 | 5 | 0 | | | | | | | | | | | | |
| Nevada | | | | | | | | | | 0 | 0 | 2 | 0 | 0 | 0 | 2 | 0 | | | | | | | 0 | 0 | 2 | 0 | | |
| New Hampshire | 1 | 1 | 0 | 0 | 4 | 0 | 0 | 2 | 3 | 0 | | 5 | 3 | 0 | 0 | 4 | 0 | | | | | | | 0 | 0 | 3 | 2 | | |
| New Jersey | | | | | | | | | | | | 4 | | 1 | 6 | | | | | | | | | | | | | | |
| New Mexico | | | | | | 0 | 0 | 2 | 2 | | | | | 1 | 3 | 2 | 0 | | | | | | | | | | | | |
| New York | 1 | 1 | 0 | 3 | 5 | | | | 2 | 4 | 5 | | | 0 | 5 | 5 | 0 | | | | | | | | | 5 | 0 | | |
| North Carolina | 2 | 2 | 0 | 1 | 4 | 0 | 0 | 0 | 5 | 2 | 0 | 5 | 4 | 4 | 5 | 5 | 0 | | | | | | | 4 | 0 | 5 | 6 | | |
| North Dakota | 3 | 2 | 0 | 0 | 4 | 0 | 0 | 0 | 4 | 0 | 0 | 3 | 0 | | | | | | | | | | | | | | | | |
| Ohio | 1 | 1 | 0 | 0 | 3 | | | | C | | | 4 | | 2 | 1 | 4 | | | | | | | | | | 4 | | | |
| Oklahoma | 1 | 1 | 0 | 0 | 5 | 0 | 0 | 0 | 5 | 0 | 1 | 5 | 3 | 0 | 0 | 4 | 0 | | | | | | | | | | | | |
| Oregon | | | | | | | | | | | | | | 0 | 0 | 2 | 2 | | | | | | | 0 | 0 | 0 | 2 | | |
| Pacific Area * | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pennsylvania | 4 | 1 | 0 | 0 | 5 | 0 | 0 | 3 | 0 | 0 | 2 | 5 | 0 | 1 | 5 | 5 | 5 | | | | | | | 1 | 1 | 5 | 4 | | |
| Puerto Rico | | | | | | | | | | | | | | | | | | | | | | | | 4 | Few | 6 | C | | |
| Rhode Island | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| South Carolina | | | | | | | | | | 0 | 0 | 5 | 0 | | | | | | | | | | | 0 | 0 | 5 | 0 | | |
| South Dakota | | | | | | 0 | 0 | 2 | 2 | | | | | 0 | 0 | 3 | 0 | | | | | | | | | | | | |
| Tennessee | | | | | | | | | | 0 | 2 | 5 | 0 | 0 | 0 | 5 | 0 | | | | | | | 0 | 0 | 2 | 2 | | |
| Texas | 20 | 8 | 0 | 1 | 4 | | | | | | | | | 1 | 1 | 4 | 4 | | | | | | | 11 | 466 | 8 | 7 | | |
| Utah | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Vermont | 1 | 1 | 0 | 7 | 4 | | | | | 0 | 0 | 4 | 0 | 0 | 0 | 3 | 0 | | | | | | | 0 | 0 | 5 | 0 | | |
| U. S. Virgin Is.* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Virginia | | | | | | 1 | 0 | 0 | 4 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 4 | | | | | | | | | | | | |
| Washington | | | | | | | | | | | | | | | | 5 | 8 | | | | | | | | | | | | |
| West Virginia | 1 | 1 | 0 | 0 | 6 | | | | | | | | | 0 | 0 | 3 | 3 | | | | | | | 0 | 0 | 3 | 0 | | |
| Wisconsin | | | | | | 0 | 0 | 4 | 4 | 0 | 0 | 5 | 0 | 0 | 1 | 5 | 0 | | | | | | | | | | | | |
| Wyoming * | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

- * Includes crop damage
- (Crop damage
- No occurrence of storms or unusual weather phenomena reported.
- Includes heavy sleet storm.
- = Freezing drizzle and freezing rain, commonly known as glaze.
- 3 For breakdown of "All Others", and for detailed listing of other storms.
- see the NOAA Environmental Data Service, monthly publication STORM DATA.
- Storm damages are placed in categories varying from 1 to 9 as follows:
 - 1 Less than \$50
 - 2 \$50 to \$500
 - 3 \$500 to \$5,000
 - 4 \$5,000 to \$50,000
 - 5 \$50,000 to \$500,000
 - 6 \$500,000 to \$5,000,000
 - 7 \$5,000,000 to \$50,000,000
 - 8 \$50,000,000 to \$500,000,000
 - 9 \$500,000,000 to \$5,000,000,000

GENERAL SUMMARY OF RIVER AND FLOOD CONDITIONS

AUGUST 1970

Elmer R. Nelson, Office of Hydrology

The most damaging floods during August occurred in the Yadkin-Pee Dee Basin in the Carolinas. It was the highest and most extensive flooding in the Yadkin Basin since 1940. The Pee Dee River at Cheraw, S. C., reached its highest stage since 1966. The total damages were estimated at nearly \$2 million.

ST. LAWRENCE DRAINAGE

Lake Erie.--Torrential rainstorms moving across western New York on August 1 caused minor brief flooding in some poor drainage areas. In Niagara Falls, N. Y., there was considerable street and basement flooding.

ATLANTIC SLOPE DRAINAGE

Flash flooding occurred at Williamsport, Pa., on the evening of July 31 and early morning of August 1. Flash flooding also occurred at Huntingdon, Pa., on the evening of August 19 when 5.27 inches were recorded.

Reservoir storage in New Jersey and New York continued its seasonal decline in August. The principal water-supply reservoirs in New Jersey decreased storage by 7.4 billion gallons or about 11 percent of the total capacity. New York City's three reservoirs on the upper Delaware decreased storage by 50.7 billion gallons with contents now at 62 percent of total usable capacity.

Several periods of heavy thunderstorms on the 23d, with rainfall amounts greater than 2 inches over a large portion of New Jersey and eastern Pennsylvania, caused localized flooding at several locations. In suburban west Philadelphia, 5 to 6 ft. of water was reported along Marshall Road. Several cars were washed away and homes and business properties were flooded.

The highest and most extensive flooding of the Yadkin River in North Carolina since August, 1940 occurred from the night of the 9th through the 12th. The rainfall totals over the headwaters during the 24-hour period ending Sunday morning on the 9th ranged from 1 to 3.5 inches, and the following 24-hour period from 5 to almost 8 inches. The Yadkin reached a crest of 15.6 ft. at Wilkesboro, N. C., or 1.6 ft. above flood stage at 4 a.m. on the 10th. The gates at Kerr Scott Reservoir were closed at 7 p.m. the evening before. Flooding was more severe at Elkin, N. C., about 30 miles downstream where the crest was 23.4 ft. or 5.4 ft. above flood stage on the afternoon of the 10th. Flooding progressed downstream to Yadkin College, N. C., where a crest of 28.9 ft. was reached on the morning of the 12th. This was the highest crest since the 33.75 ft. stage on Aug., 1940. High Rock Lake, below Yadkin College, successfully handled the inflow by use of flood gates. A discharge in excess of 70,000 c.f.s. was maintained from 7 a.m. to 8 p.m. on August 12. Upstream, Kerr Scott Reservoir had a pool elevation of approximately 1029 ft. before the heavy rains began on Aug. 8. It filled 31 ft. to an elevation of 1060 ft. before falling stages downstream permitted discharge through flood gates. Only 15 ft. of storage remained before it became a full lake. Flash flooding was quite general during the afternoon of the 9th along all small streams and creeks in mountain counties as well as in the foothills. Many sections of roads and a number of bridges were still under water with rain still falling. The Pee Dee River at Cheraw, S. C., reached at stage of 38.3 ft., 8.3 ft. above flood stage, during the evening of the 11th. This was the highest stage at Cheraw since

Mar. 6, 1966, when it reached a stage of 38.8 ft. Downstream at Peedee, S. C., the river crested nearly 3 ft. above flood stage on the 19th. The river rose 10 ft. in 24 hours which was the largest rise in that time period during the past 25 years. The total damages in the Yadkin-Pee Dee Basin were estimated at nearly \$2 million.

Minor flooding continued on the Lumber River at Lumberton, N. C., from July 29 to Aug. 6. Only swamp-land and a few low approach roads were flooded. Heavy rainfall on Aug. 24 caused additional minor flooding on Aug. 26-27.

Flash flooding occurred along the headwaters of the Broad River in North Carolina from heavy rainfall totaling 8.5 inches above Gaffney, N. C., on Aug. 6-10. The river crested 3.6 ft. above flood stage at Gaffney, N. C., on the 11th and nearly 8 ft. above flood stage at Blair, S. C., on the 12th. One person drowned attempting to cross a bridge which was under water. The highest flooding since Aug., 1940 occurred over the headwaters of the Catawba River in North Carolina from rainfall averaging 7 to 10 inches on Aug. 8-10. Major flooding extended from creeks and headwaters above Hickory, N. C., along the Catawba River to the entrance to Lake Norman. Lookout Shoals Lake reached the 3d highest stage (109.5 ft.) since the dam was built in 1915. The highest of record is 118.9 ft. on July 16, 1940 and the second highest is 112.0 ft. on Aug. 14, 1940. Flash flooding was general on streams and creeks in the headwaters east of Hickory, N. C., down to the entrance to Lake Wylie on the 9-10th. The total damages in the Catawba-Wateree Basin were estimated at \$350,000.

Heavy rain (3 to 5 inches) during the 48-hour period ending on the morning of the 11th caused flooding on the Dan River at Danville, Va., and on the lower Cape Fear River in North Carolina. The Dan River crested nearly 3 ft. above flood stage at Danville, Va., on the 12th. Flash flooding was reported along portions of the upper Dan and some of its tributaries. Flooding along the Cape Fear River was minor.

EAST GULF OF MEXICO DRAINAGE

Heavy showers and thunder storms over southern Georgia and northern Florida on Aug. 9-16 caused the Suwannee River to rise above flood stage at White Springs, Fla., on Aug. 18. It crested on Aug. 31, 0.8 foot above flood stage. It receded within its banks on Sept. 2. The river reached flood stage at Suwannee Springs, Fla., on Aug. 23. It crested 2 ft. above flood stage on Aug. 31, and receded within its banks on Sept. 4. No flood damages were reported.

MISSISSIPPI SYSTEM

Upper Mississippi Basin.--Heavy rains caused minor flooding on the Fox, Salt and Cuivre Rivers in north-eastern Missouri on Aug. 6-11. The Fox river was out of its banks on the 7-10th and crested nearly 4 ft. above flood stage on the 8th. The Salt River at New London, Mo., was in minor flood on the 6th and 8-11th. The higher crest occurred during the second rise and was 5.2 ft above flood stage on the 10th. The Cuivre River rose above flood stage at Troy, Mo., on the 8th and at Old Monroe, Mo., on the 9th. It receded within its banks by the 10th. The higher crest occurred at Troy on the 9th and was nearly 4 ft. above flood stage. No significant damage was reported.

Missouri Basin.--Flash flooding occurred in Box Elder Creek in the Vicinity of Nemo, S. Dak., during

AUGUST 1970

the afternoon of Aug. 5, 1970. This was caused by locally heavy thunderstorms in the Black Hills. The rainfall ranged from 2.65 inches at Nemo to 3 inches at Lead, Deadwood and south of Belle Fourche, S. Dak. Damages were light and confined primarily to roads.

Heavy rains over south central Iowa and north-central Missouri on the 7-8th caused flash flooding on the Chariton River in Iowa and near Prairie Hill, Mo. Crests ranged from 5.5 ft. above flood stage at Chariton, Iowa, to 1.2 ft. above flood stage near Prairie Hill, Mo. Heavy rains on the evening of the 17th and the morning of the 18th over northern Missouri and southern Iowa caused additional flash flooding on the Chariton River in Missouri.

White Basin.--Heavy rain on the 9th and 10th totalling 6 to 7 inches at some points caused the Black River to rise to bankfull level at Black Rock, Ark., on the 10th. The Cache River at Patterson, Ark., rose to flood stage on the 9th and continued in flood until the 20th. Some flood damage resulted to crops along the Cache and White Rivers. Though the White River remained well below flood stage, flooding of short duration occurred when levees prevented runoff from the heavy rains from entering the river.

GULF OF CALIFORNIA DRAINAGE

Colorado Basin.--Heavy rain on the 2d caused flash flooding in Ajo and near Ft. Huachuca, Ariz. Two persons were drowned and two persons were missing in Waterman Wash, southwest of Phoenix, Ariz., on the 9th. Forty-five people were marooned near Apache Junction, Ariz., by flash flooding.

Heavy rain in Santa Cruz and Cochise Counties in Arizona on the 10th resulted in heavy runoff from Pantano

River into the Rillito River. Water rose to a depth of 5 ft. stalling a heavy dump truck along the Pantano River. The driver was rescued by helicopter. The rainfall totalled 3.37 inches in two hours at Bisbee, Ariz.

Heavy thundershowers on the 11th in the Salt River Valley in Arizona resulted in minor flooding.

Heavy rain on the 12th caused flash flooding at Flagstaff, Ariz. Several basements were flooded and streets were knee-deep with water for a few hours. Local flash flooding occurred again in Flagstaff on the 22d inundating streets for a few hours.

Heavy thundershowers on the 14th caused localized flooding in the Tucson, Ariz., area. Damage was confined to cars abandoned in deep water intersections. Flash flooding at Kingman, Ariz., on the 15th closed Arizona State Highway 68 for several hours.

GREAT BASIN

Local flooding occurred at Salina, Utah, on the 20th and 26th. The first flood was due to heavy rains that fell over two ravines east of the city. Rainfall of 1.5 inches occurred at Salina with estimates of 2 inches or more in the foothills in a 20 to 40 minute period. About 40 homes were damaged with preliminary damages estimated near \$100,000.

The second flood on Aug. 26 resulted in only minor damages, as the rain swollen Salina Creek flowed through Salina, Utah, with a peak flow of 3,000 c.f.s. The damages to urban and commercial dwellings were estimated at \$13,000.

FLOOD STAGE DATA

(All dates in August unless otherwise specified)

AUGUST 1970

| River and station | Flood stage | Above flood stages -dates | | Crest* | |
|--|-------------|---------------------------|--------|------------|---------|
| | | From- | To- | Stage | Date |
| ATLANTIC SLOPE DRAINAGE | | | | | |
| | <i>Ft.</i> | | | <i>Ft.</i> | |
| Yadkin: Wilkesboro, N. C. | 14 | 9 | 10 | 15.6 | 10 |
| Elkin, N. C. | 16 | 10 | 11 | 23.4 | 10 |
| Yadkin College, N. C. | 18 | 10 | 12 | 28.9 | 12 |
| Lumber: Lumberton, N. C. | 9 | July 29 | 6 | # 9.9 | July 31 |
| | | 26 | 27 | 9.4 | 26 |
| Pee Dee: Cheraw, S. C. | 30 | 12 | 14 | 38.3 | 13 |
| Pee Dee, S. C. | 19 | 14 | 29 | 21.9 | 19 |
| Broad: Gatlinburg, S. C. | 10 | 10 | 11 | 13.6 | 11 |
| Blair, S. C. | 14 | 11 | 14 | 21.9 | 12 |
| Catawba: Lookout Shoals Lake, N. C. | 100 | 10 | 12 | 109.5 | 10 |
| Dan: Danville, Va. | 11 | 10 | 13 | 13.9 | 12 |
| Cape Fear: Wm. O. Huske L&D, Tarheel (nr), N. C. | 42 | 13 | 13 | 42.5 | 13 |
| Lock No. 2, Elizabethtown, N. C. | 20 | 13 | 13 | 20.2 | 13 |
| EAST GULF OF MEXICO DRAINAGE | | | | | |
| Suwannee: White Springs, Fla. | 30 | 18 | Sep. 2 | #30.8 | 31 |
| Suwannee Springs, Fla. | 64 | 23 | Sep. 4 | 66.0 | 31 |
| MISSISSIPPI SYSTEM | | | | | |
| Upper Mississippi Basin | | | | | |
| North Skunk: Sigorney, Iowa | 16 | 4 | 10 | 21.0 | 6 |
| Skunk: Brighton, Iowa | 14 | 5 | 11 | E18.0 | 7 |
| Augusta, Iowa | 15 | 6 | 11 | 18.1 | 10 |
| Middle River: Indianola, Iowa | 19 | 8 | 9 | 20.65 | 8 |
| South River: Ackworth, Iowa | 19 | 8 | 9 | 27.48 | 8 |
| White Breast Creek: Dallas, Iowa | 22 | 9 | 9 | 23.05 | 9 |
| MISSISSIPPI SYSTEM(Cont'd) | | | | | |
| Upper Mississippi Basin(cont'd) | | | | | |
| Fox: Wayland, Mo. | 15 | 7 | 10 | 18.95 | 8 |
| Salt: New London, Mo. | 19 | 6 | 6 | 20.8 | 6 |
| | | 8 | 11 | 24.2 | 10 |
| Cuivre: Troy, Mo. | E21 | 8 | 9 | 24.8 | 9 |
| Old Monroe, Mo. | 24 | 9 | 10 | 24.95 | 10 |
| Missouri Basin | | | | | |
| Chariton: Chariton, Iowa | 15 | 8 | 8 | 20.5 | 8 |
| Promise City, Iowa | 18 | 8 | 8 | 20.0 | 8 |
| Novinger, Mo. | 20 | 18 | 18 | 22.1 | 18 |
| Prairie Hill (nr), Mo. | 15 | 9 | 9 | 16.15 | 9 |
| | | 18 | 19 | 17.6 | 19 |
| White Basin | | | | | |
| Black: Black Rock, Ark. | 14 | 10 | 10 | 14.0 | 10 |
| Cache: Patterson, Ark. | 7 | 9 | 20 | 8.4 | 11 |
| * Provisional | | | | | |
| # Highest stage observed | | | | | |
| E Estimated | | | | | |

RAWINSONDE DATA

Average monthly values

AUGUST 1970

| ALBANY, N. Y.
1005 MB | | | | | | | | | | | | ALBUQUERQUE, N. MEX.
841 MB | | | | | | | | | | | | AMARILLO, TEXAS
892 MB | | | | | | | | | | | | ANCHORAGE, ALASKA
1005 MB | | | | | | | | | | | | ANNETTE, ALASKA
1013 MB | | | | | | | | | | | |
|---------------------------------|--------------------|----------------|-------------|-----------|-----------|--------|--------------------|----------------|-------------|-----------|-----------|--------------------------------|--------------------|----------------|-------------|-----------|-----------|--------|--------------------|----------------|-------------|-----------|-----------|---------------------------|--------------------|----------------|-------------|-----------|-----------|-------|--------------------|----------------|-------------|-----------|-----------|------------------------------|--------------------|----------------|-------------|-----------|-----------|-------|-----|------|-----|--|--|----------------------------|--|--|--|--|--|--|--|--|--|--|--|
| Standard pressure
surface mb | No of observations | Dynamic height | Temperature | Dew Point | Direction | Speed | No of observations | Dynamic height | Temperature | Dew Point | Direction | Speed | No of observations | Dynamic height | Temperature | Dew Point | Direction | Speed | No of observations | Dynamic height | Temperature | Dew Point | Direction | Speed | No of observations | Dynamic height | Temperature | Dew Point | Direction | Speed | No of observations | Dynamic height | Temperature | Dew Point | Direction | Speed | No of observations | Dynamic height | Temperature | Dew Point | Direction | Speed | | | | | | | | | | | | | | | | | |
| 5 | 30 | 86 | 16.3 | 14.9 | 22 | 1.0 | 31 | 16.19 | 19.5 | 11.7 | 09 | 1.7 | 31 | 1.095 | 20.0 | 12.9 | 20 | 2.1 | 31 | 4.5 | 11.2 | 7.4 | 17 | 2.9 | 31 | 37 | 11.1 | 8.9 | 17 | 1.2 | 2.9 | 31 | 37 | 11.1 | 8.9 | 17 | 1.2 | 2.9 | 31 | 37 | 11.1 | 8.9 | 17 | 1.2 | 2.9 | | | | | | | | | | | | | | |
| 1000 | 31 | 88 | 17.3 | 15.7 | 23 | 1.2 | 31 | 16.2 | 19.6 | 11.8 | 09 | 1.8 | 31 | 1.100 | 20.1 | 13.0 | 20 | 2.2 | 31 | 4.6 | 11.3 | 7.5 | 17 | 3.0 | 31 | 38 | 11.2 | 9.0 | 18 | 1.3 | 3.0 | 31 | 38 | 11.2 | 9.0 | 18 | 1.3 | 3.0 | 31 | 38 | 11.2 | 9.0 | 18 | 1.3 | 3.0 | | | | | | | | | | | | | | |
| 950 | 31 | 90 | 18.3 | 16.7 | 23 | 1.4 | 31 | 16.4 | 19.8 | 12.0 | 09 | 2.0 | 31 | 1.110 | 20.2 | 13.1 | 20 | 2.3 | 31 | 4.7 | 11.4 | 7.6 | 17 | 3.1 | 31 | 39 | 11.3 | 9.1 | 19 | 1.4 | 3.1 | 31 | 39 | 11.3 | 9.1 | 19 | 1.4 | 3.1 | 31 | 39 | 11.3 | 9.1 | 19 | 1.4 | 3.1 | | | | | | | | | | | | | | |
| 900 | 31 | 1.012 | 10.0 | 3.9 | 3 | 5.6 | 31 | 1.522 | | | | | 31 | 1.017 | 21.6 | 11.5 | 21 | 4.4 | 31 | 14.27 | 31 | 1.0 | 1.5 | 3.7 | 31 | 14.33 | 5.0 | 1.0 | 2.0 | 3.5 | 31 | 14.33 | 5.0 | 1.0 | 2.0 | 3.5 | 31 | 14.33 | 5.0 | 1.0 | 2.0 | 3.5 | | | | | | | | | | | | | | | | | |
| 850 | 30 | 2.018 | 9.5 | -7.29 | 6.6 | 3 | 2.045 | 19.0 | 7.1 | 1.5 | 1.6 | 31 | 2.041 | 18.8 | 7.9 | 22 | 3.7 | 31 | 1.916 | 31 | 1.2 | 1.8 | 1.5 | 4.4 | 31 | 1.976 | 2.7 | 2.2 | 2.22 | 4.4 | 31 | 1.976 | 2.7 | 2.2 | 2.22 | 4.4 | 31 | 1.976 | 2.7 | 2.2 | 2.22 | 4.4 | | | | | | | | | | | | | | | | | |
| 800 | 31 | 2.551 | 7.0 | -5.7 | 8.3 | 2 | 2.587 | 15.8 | 4.1 | 1.2 | 1.7 | 31 | 2.592 | 15.1 | 4.6 | 25 | 2.2 | 31 | 2.431 | 31 | 1.2 | 1.8 | 1.6 | 4.4 | 31 | 2.497 | 4.7 | 5.5 | 2.3 | 5.2 | 4.4 | 31 | 2.497 | 4.7 | 5.5 | 2.3 | 5.2 | 4.4 | 31 | 2.497 | 4.7 | 5.5 | 2.3 | 5.2 | | | | | | | | | | | | | | | |
| 700 | 30 | 3.116 | 4.3 | -4.6 | 8.6 | 3 | 3.180 | 11.9 | 1.4 | 2.5 | 1.7 | 31 | 3.173 | 10.9 | 4.9 | 30 | 1.3 | 31 | 2.976 | 31 | 1.3 | 1.6 | 1.7 | 3.5 | 31 | 3.048 | 1.8 | 9.0 | 2.4 | 6.6 | 3.5 | 31 | 3.048 | 1.8 | 9.0 | 2.4 | 6.6 | 3.5 | 31 | 3.048 | 1.8 | 9.0 | 2.4 | 6.6 | | | | | | | | | | | | | | | |
| 650 | 30 | 3.715 | 1.1 | -14.1 | 9.6 | 3 | 3.736 | 7.3 | -0.8 | 2.6 | 1.5 | 31 | 3.787 | 6.4 | 2.5 | 31 | 1.1 | 31 | 3.585 | 31 | 1.1 | 1.3 | 1.3 | 3.2 | 31 | 3.635 | -4.7 | -12.7 | 2.4 | 6.1 | 3.2 | 31 | 3.635 | -4.7 | -12.7 | 2.4 | 6.1 | 3.2 | 31 | 3.635 | -4.7 | -12.7 | 2.4 | 6.1 | | | | | | | | | | | | | | | |
| 600 | 30 | 4.355 | -1.6 | -18.6 | 10.3 | 4 | 4.449 | 2.5 | -3.6 | 3.0 | 2.2 | 31 | 4.439 | 2.6 | 9.4 | 0.5 | 1.0 | 31 | 4.172 | 31 | 1.1 | 1.7 | 1.8 | 3.1 | 31 | 4.261 | -8.1 | -16.9 | 2.4 | 9.3 | 3.1 | 31 | 4.261 | -8.1 | -16.9 | 2.4 | 9.3 | 3.1 | 31 | 4.261 | -8.1 | -16.9 | 2.4 | 9.3 | | | | | | | | | | | | | | | |
| 550 | 30 | 5.000 | -6.3 | -22.7 | 11.9 | 3 | 5.146 | -2.5 | -9.3 | 3.1 | 1.8 | 31 | 5.137 | -1.4 | -14.2 | 0.8 | 1.1 | 31 | 4.834 | 31 | 1.3 | 1.5 | 1.6 | 2.5 | 31 | 4.932 | -15.8 | -23.2 | 2.4 | 10.3 | 2.5 | 31 | 4.932 | -15.8 | -23.2 | 2.4 | 10.3 | 2.5 | 31 | 4.932 | -15.8 | -23.2 | 2.4 | 10.3 | | | | | | | | | | | | | | | |
| 500 | 30 | 5.779 | -11.2 | -26.9 | 13.1 | 3 | 5.896 | -7.0 | -16.4 | 3.1 | 1.0 | 31 | 5.890 | -6.2 | -17.7 | 0.6 | 3.7 | 31 | 5.546 | 31 | 1.2 | 1.4 | 1.5 | 2.9 | 31 | 5.654 | -16.9 | -26.6 | 2.5 | 11.6 | 2.9 | 31 | 5.654 | -16.9 | -26.6 | 2.5 | 11.6 | 2.9 | 31 | 5.654 | -16.9 | -26.6 | 2.5 | 11.6 | | | | | | | | | | | | | | | |
| 450 | 30 | 6.579 | -16.7 | -33.5 | 24.6 | 3 | 6.712 | -11.4 | -22.9 | 2.5 | 1.5 | 31 | 6.707 | -10.9 | -24.8 | 3.6 | 3.9 | 31 | 6.320 | 31 | 1.3 | 1.5 | 1.6 | 3.6 | 31 | 6.437 | -22.1 | -33.1 | 2.6 | 12.9 | 3.6 | 31 | 6.437 | -22.1 | -33.1 | 2.6 | 12.9 | 3.6 | 31 | 6.437 | -22.1 | -33.1 | 2.6 | 12.9 | | | | | | | | | | | | | | | |
| 400 | 30 | 7.424 | -22.8 | -38.7 | 18.0 | 3 | 7.606 | -17.2 | -29.9 | 2.7 | 1.5 | 31 | 7.603 | -16.6 | -30.2 | 3.2 | 2.2 | 31 | 7.185 | 31 | 1.3 | 1.5 | 1.6 | 3.2 | 31 | 7.293 | -28.1 | -38.4 | 2.6 | 13.7 | 3.2 | 31 | 7.293 | -28.1 | -38.4 | 2.6 | 13.7 | 3.2 | 31 | 7.293 | -28.1 | -38.4 | 2.6 | 13.7 | | | | | | | | | | | | | | | |
| 350 | 30 | 8.242 | -29.8 | -44.3 | 18.3 | 3 | 8.597 | -23.9 | -37.4 | 2.8 | 1.7 | 31 | 8.595 | -23.6 | -38.9 | 3.3 | 2.7 | 31 | 8.101 | 31 | 1.3 | 1.5 | 1.6 | 2.5 | 31 | 8.241 | -32.1 | -43.8 | 2.6 | 15.1 | 2.5 | 31 | 8.241 | -32.1 | -43.8 | 2.6 | 15.1 | 2.5 | 31 | 8.241 | -32.1 | -43.8 | 2.6 | 15.1 | | | | | | | | | | | | | | | |
| 300 | 30 | 9.500 | -37.9 | -50.3 | 28.4 | 3 | 9.702 | -32.0 | -44.8 | 2.9 | 2.4 | 31 | 9.700 | -32.0 | -44.1 | 3.3 | 3.2 | 31 | 9.143 | 31 | 1.3 | 1.5 | 1.6 | 2.5 | 31 | 9.245 | -42.7 | -57.7 | 2.6 | 16.3 | 2.5 | 31 | 9.245 | -42.7 | -57.7 | 2.6 | 16.3 | 2.5 | 31 | 9.245 | -42.7 | -57.7 | 2.6 | 16.3 | | | | | | | | | | | | | | | |
| 250 | 30 | 10.734 | -46.0 | | 28 | 22.9 | 10.963 | -42.0 | -50.8 | 2.9 | 3.1 | 31 | 10.961 | -42.1 | -49.7 | 3.4 | 3.2 | 31 | 10.362 | 31 | 1.3 | 1.5 | 1.6 | 2.5 | 27 | 7.6 | 31 | 10.507 | -49.8 | | 2.6 | 17.7 | 2.6 | 31 | 10.507 | -49.8 | | 2.6 | 17.7 | | | | | | | | | | | | | | | | | | | | |
| 200 | 30 | 12.197 | -51.9 | | 27 | 23.7 | 12.2437 | -53.4 | | 2.8 | 4.6 | 31 | 12.2434 | -53.4 | | 3.2 | 5.1 | 31 | 11.797 | 31 | 1.3 | 1.5 | 1.6 | 2.5 | 26 | 8.9 | 31 | 11.955 | -52.3 | | 2.6 | 16.9 | 2.6 | 31 | 11.955 | -52.3 | | 2.6 | 16.9 | | | | | | | | | | | | | | | | | | | | |
| 175 | 31 | 13.058 | -54.5 | | 27 | 22.5 | 13.285 | -59.2 | | 2.8 | 4.5 | 31 | 13.285 | -59.1 | | 3.1 | 5.0 | 31 | 12.676 | 31 | 1.3 | 1.5 | 1.6 | 2.5 | 26 | 8.6 | 31 | 12.820 | -51.7 | | 2.6 | 15.3 | 2.6 | 31 | 12.820 | -51.7 | | 2.6 | 15.3 | | | | | | | | | | | | | | | | | | | | |
| 150 | 30 | 14.039 | -57.3 | | 27 | 19.7 | 14.236 | -65.7 | | 2.8 | 4.8 | 31 | 14.237 | -65.6 | | 3.2 | 3.5 | 31 | 13.692 | 31 | 1.3 | 1.5 | 1.6 | 2.5 | 26 | 9.1 | 31 | 13.818 | -52.7 | | 2.6 | 13.9 | 2.6 | 31 | 13.818 | -52.7 | | 2.6 | 13.9 | | | | | | | | | | | | | | | | | | | | |
| 125 | 31 | 15.186 | -59.5 | | 27 | 15.5 | 15.399 | -71.0 | | 2.7 | 3.2 | 31 | 15.392 | -71.0 | | 2.6 | 2.8 | 31 | 14.991 | 31 | 1.3 | 1.5 | 1.6 | 2.5 | 26 | 6.8 | 31 | 14.991 | -49.0 | | 2.6 | 10.5 | 2.6 | 31 | 14.991 | -49.0 | | 2.6 | 10.5 | | | | | | | | | | | | | | | | | | | | |
| 100 | 30 | 16.580 | -59.7 | | 27 | 10.7 | 16.666 | -70.6 | | 2.7 | 1.5 | 31 | 16.651 | -70.6 | | 2.4 | 2.5 | 31 | 16.355 | 31 | 1.3 | 1.5 | 1.6 | 2.5 | 25 | 6.4 | 31 | 16.438 | -52.8 | | 2.6 | 8.6 | 2.6 | 31 | 16.438 | -52.8 | | 2.6 | 8.6 | | | | | | | | | | | | | | | | | | | | |
| 80 | 30 | 17.983 | -57.2 | | 27 | 4.7 | 17.986 | -66.1 | | 0.9 | 3.7 | 31 | 17.990 | -65.8 | | 0.8 | 4.5 | 31 | 17.820 | 31 | 1.3 | 1.5 | 1.6 | 2.5 | 25 | 4.4 | 31 | 17.881 | -52.0 | | 2.5 | 6.0 | 2.5 | 31 | 17.881 | -52.0 | | 2.5 | 6.0 | | | | | | | | | | | | | | | | | | | | |
| 70 | 30 | 18.830 | -56.2 | | 27 | 1.4 | 18.802 | -63.1 | | 0.9 | 5.5 | 30 | 18.809 | -62.5 | | 0.8 | 5.7 | 30 | 18.696 | 31 | 1.3 | 1.5 | 1.6 | 2.5 | 25 | 3.4 | 29 | 18.746 | -51.6 | | 2.5 | 4.8 | 2.5 | 31 | 18.746 | -51.6 | | 2.5 | 4.8 | | | | | | | | | | | | | | | | | | | | |
| 60 | 30 | 19.512 | -55.3 | | 27 | 1.4 | 19.756 | -60.3 | | 0.9 | 7.8 | 31 | 19.766 | -59.9 | | 0.8 | 8.0 | 30 | 19.709 | 31 | 1.3 | 1.5 | 1.6 | 2.5 | 26 | 2.4 | 29 | 19.747 | -51.5 | | 2.5 | 3.7 | 2.5 | 31 | 19.747 | -51.5 | | 2.5 | 3.7 | | | | | | | | | | | | | | | | | | | | |
| 50 | 30 | 20.980 | -53.6 | | 27 | 2.0 | 20.901 | -57.5 | | 0.9 | 9.8 | 31 | 20.916 | -57.1 | | 0.8 | 9.4 | 30 | 20.916 | 31 | 1.3 | 1.5 | 1.6 | 2.5 | 26 | 2.3 | 29 | 20.932 | -51.1 | | 2.5 | 2.8 | 2.5 | 31 | 20.932 | -51.1 | | 2.5 | 2.8 | | | | | | | | | | | | | | | | | | | | |
| 40 | 30 | 22.420 | -51.9 | | 27 | 4.8 | 22.321 | -54.3 | | 0.9 | 11.0 | 29 | 22.336 | -53.4 | | 0.9 | 10.3 | 29 | 22.375 | 31 | 1.3 | 1.5 | 1.6 | 2.5 | 24 | 1.1 | 27 | 22.382 | -50.6 | | 2.5 | 2.4 | 2.5 | 31 | 22.382 | -50.6 | | 2.5 | 2.4 | | | | | | | | | | | | | | | | | | | | |
| 30 | 25 | 24.288 | -49.7 | | 0.8 | 4.2 | 24.170 | -52.2 | | 0.9 | 13.1 | 29 | 24.189 | -51.8 | | 0.9 | 13.0 | 25 | 24.277 | 31 | 1.3 | 1.5 | 1.6 | 2.5 | 0.9 | 1.5 | 26 | 24.263 | -49.7 | | 0.7 | 1.3 | 0.7 | 31 | 24.263 | -49.7 | | 0.7 | 1.3 | | | | | | | | | | | | | | | | | | | | |
| 25 | 24 | 25.486 | -47.9 | | 0.8 | 5.5 | 25.354 | -50.2 | | 0.9 | 14.3 | 28 | 25.376 | -49.8 | | 0.9 | 14.5 | 24 | 25.485 | 31 | 1.3 | 1.5 | 1.6 | 2.5 | 0.5 | 1.7 | 24 | 25.462 | -48.4 | | 0.7 | 3.2 | 0.7 | 31 | 25.462 | -48.4 | | 0.7 | 3.2 | | | | | | | | | | | | | | | | | | | | |
| 20 | 20 | 26.967 | -46.1 | | 0.9 | 6.8 | 26.820 | -47.7 | | 0.9 | 14.7 | 27 | 26.851 | -47.1 | | 0.9 | 15.3 | 23 | 26.967 | 31 | 1.3 | 1.5 | 1.6 | 2.5 | 0.8 | 1.3 | 23 | 26.936 | -46.9 | | 0.7 | 3.4 | 0.7 | 31 | 26.936 | -46.9 | | 0.7 | 3.4 | | | | | | | | | | | | | | | | | | | | |
| 15 | 19 | 28.889 | -43.9 | | 0.9 | 7.2 | 28.731 | -43.5 | | 0.9 | 16.1 | 27 | 28.768 | -44.0 | | 0.9 | 16.2 | 22 | 28.894 | 31 | 1.3 | 1.5 | 1.6 | 2.5 | 0.8 | 2.2 | 22 | 28.855 | -44.4 | | 0.9 | 3.2 | 0.7 | 31 | 28.855 | -44.4 | | 0.7 | 3.2 | | | | | | | | | | | | | | | | | | | | |
| 10 | 13 | 31.614 | -41.3 | | 0.9 | 17.4 | 31.456 | -42.9 | | 0.9 | 19.0 | 5 | 31.482 | -40.5 | | 0.9 | 16 | 31.614 | -41.0 | 31 | 1.3 | 1.5 | 1.6 | 2.5 | 0.4 | 1.5 | 19 | 31.609 | -40.1 | | 0.7 | 4.5 | 0.7 | 31 | 31.609 | -40.1 | | 0.7 | 4.5 | | | | | | | | | | | | | | | | | | | | |
| 5 | 7 | | | | 1.0 | 33.851 | -39.9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| ATHENS, GEORGIA | | | | | | | | | | BARROW, ALASKA | | | | | | | | | | BARTER IS., ALASKA | | | | | | | | | | BETHEL, ALASKA | | | | | | | | | | BISMARCK, N. DAK. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 987 MB | | | | | | | | | | 1009 MB | | | | | | | | | | 1007 MB | | | | | | | | | | 1005 MB | | | | | | | | | | 955 MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| S | R | F | A | C | E | 29 | 246 | 21.5 | 20.5 | 03 | 7.3 | 31 | 8 | 18 | 2 | 07 | 2.0 | 31 | 15 | 4.1 | 3.4 | 10 | 1.6 | 18 | 39 | 8.6 | 8.0 | 23 | 1.4 | 31 | 503 | 13.4 | 10.8 | 07 | 1.3 | 2.1 | 31 | 113 | 14.2 | 10.5 | 11 | 1.5 | 2.7 | 31 | 142 | 18.1 | 8.0 | 23 | 2.2 | 3.1 | 31 | 1012 | 18.1 | 8.0 | 23 | 2.2 | 3.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1000 | 29 | 133 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

RAWINSONDE DATA

Average monthly values

| CHARLESTON, S. C.
1012 MB | | | | | | | | | | CHICAGO, ILL.
1007 MB | | | | | | | | | | EL PASO, TEXAS
882 MB | | | | | | | | | | |
|-----------------------------------|---------------------|----------------|-------------|-----------|-----------|-------|---------------------|----------------|-------------|--------------------------|-----------|-------|---------------------|----------------|-------------|-----------|-----------|-------|---------------------|--------------------------|-------------|-----------|-----------|-------|---------------------|----------------|-------------|-----------|-----------|-------|
| Standard pressure
surface (mb) | No. of observations | Dynamic height | Temperature | Dew Point | Direction | Speed | No. of observations | Dynamic height | Temperature | Dew Point | Direction | Speed | No. of observations | Dynamic height | Temperature | Dew Point | Direction | Speed | No. of observations | Dynamic height | Temperature | Dew Point | Direction | Speed | No. of observations | Dynamic height | Temperature | Dew Point | Direction | Speed |
| SURFACE | 31 | 1.3 | 23.6 | 14.3 | 27 | 3.3 | 31 | 1.3 | 23.6 | 14.3 | 27 | 3.3 | 31 | 1.3 | 23.6 | 14.3 | 27 | 3.3 | 31 | 1.3 | 23.6 | 14.3 | 27 | 3.3 | 31 | 1.3 | 23.6 | 14.3 | 27 | 3.3 |
| 1000 | 31 | 1.3 | 23.6 | 14.3 | 27 | 3.3 | 31 | 1.3 | 23.6 | 14.3 | 27 | 3.3 | 31 | 1.3 | 23.6 | 14.3 | 27 | 3.3 | 31 | 1.3 | 23.6 | 14.3 | 27 | 3.3 | 31 | 1.3 | 23.6 | 14.3 | 27 | 3.3 |
| 950 | 31 | 1.3 | 23.6 | 14.3 | 27 | 3.3 | 31 | 1.3 | 23.6 | 14.3 | 27 | 3.3 | 31 | 1.3 | 23.6 | 14.3 | 27 | 3.3 | 31 | 1.3 | 23.6 | 14.3 | 27 | 3.3 | 31 | 1.3 | 23.6 | 14.3 | 27 | 3.3 |
| 900 | 31 | 1.3 | 23.6 | 14.3 | 27 | 3.3 | 31 | 1.3 | 23.6 | 14.3 | 27 | 3.3 | 31 | 1.3 | 23.6 | 14.3 | 27 | 3.3 | 31 | 1.3 | 23.6 | 14.3 | 27 | 3.3 | 31 | 1.3 | 23.6 | 14.3 | 27 | 3.3 |
| 850 | 31 | 1.3 | 23.6 | 14.3 | 27 | 3.3 | 31 | 1.3 | 23.6 | 14.3 | 27 | 3.3 | 31 | 1.3 | 23.6 | 14.3 | 27 | 3.3 | 31 | 1.3 | 23.6 | 14.3 | 27 | 3.3 | 31 | 1.3 | 23.6 | 14.3 | 27 | 3.3 |
| 800 | 31 | 1.3 | 23.6 | 14.3 | 27 | 3.3 | 31 | 1.3 | 23.6 | 14.3 | 27 | 3.3 | 31 | 1.3 | 23.6 | 14.3 | 27 | 3.3 | 31 | 1.3 | 23.6 | 14.3 | 27 | 3.3 | 31 | 1.3 | 23.6 | 14.3 | 27 | 3.3 |
| 750 | 31 | 1.3 | 23.6 | 14.3 | 27 | 3.3 | 31 | 1.3 | 23.6 | 14.3 | 27 | 3.3 | 31 | 1.3 | 23.6 | 14.3 | 27 | 3.3 | 31 | 1.3 | 23.6 | 14.3 | 27 | 3.3 | 31 | 1.3 | 23.6 | 14.3 | 27 | 3.3 |
| 700 | 31 | 1.3 | 23.6 | 14.3 | 27 | 3.3 | 31 | 1.3 | 23.6 | 14.3 | 27 | 3.3 | 31 | 1.3 | 23.6 | 14.3 | 27 | 3.3 | 31 | 1.3 | 23.6 | 14.3 | 27 | 3.3 | 31 | 1.3 | 23.6 | 14.3 | 27 | 3.3 |
| 650 | 31 | 1.3 | 23.6 | 14.3 | 27 | 3.3 | 31 | 1.3 | 23.6 | 14.3 | 27 | 3.3 | 31 | 1.3 | 23.6 | 14.3 | 27 | 3.3 | 31 | 1.3 | 23.6 | 14.3 | 27 | 3.3 | 31 | 1.3 | 23.6 | 14.3 | 27 | 3.3 |
| 600 | 31 | 1.3 | 23.6 | 14.3 | 27 | 3.3 | 31 | 1.3 | 23.6 | 14.3 | 27 | 3.3 | 31 | 1.3 | 23.6 | 14.3 | 27 | 3.3 | 31 | 1.3 | 23.6 | 14.3 | 27 | 3.3 | 31 | 1.3 | 23.6 | 14.3 | 27 | 3.3 |
| 550 | 31 | 1.3 | 23.6 | 14.3 | 27 | 3.3 | 31 | 1.3 | 23.6 | 14.3 | 27 | 3.3 | 31 | 1.3 | 23.6 | 14.3 | 27 | 3.3 | 31 | 1.3 | 23.6 | 14.3 | 27 | 3.3 | 31 | 1.3 | 23.6 | 14.3 | 27 | 3.3 |
| 500 | 31 | 1.3 | 23.6 | 14.3 | 27 | 3.3 | 31 | 1.3 | 23.6 | 14.3 | 27 | 3.3 | 31 | 1.3 | 23.6 | 14.3 | 27 | 3.3 | 31 | 1.3 | 23.6 | 14.3 | 27 | 3.3 | 31 | 1.3 | 23.6 | 14.3 | 27 | 3.3 |
| 450 | 31 | 1.3 | 23.6 | 14.3 | 27 | 3.3 | 31 | 1.3 | 23.6 | 14.3 | 27 | 3.3 | 31 | 1.3 | 23.6 | 14.3 | 27 | 3.3 | 31 | 1.3 | 23.6 | 14.3 | 27 | 3.3 | 31 | 1.3 | 23.6 | 14.3 | 27 | 3.3 |
| 400 | 31 | 1.3 | 23.6 | 14.3 | 27 | 3.3 | 31 | 1.3 | 23.6 | 14.3 | 27 | 3.3 | 31 | 1.3 | 23.6 | 14.3 | 27 | 3.3 | 31 | 1.3 | 23.6 | 14.3 | 27 | 3.3 | 31 | 1.3 | 23.6 | 14.3 | 27 | 3.3 |
| 350 | 31 | 1.3 | 23.6 | 14.3 | 27 | 3.3 | 31 | 1.3 | 23.6 | 14.3 | 27 | 3.3 | 31 | 1.3 | 23.6 | 14.3 | 27 | 3.3 | 31 | 1.3 | 23.6 | 14.3 | 27 | 3.3 | 31 | 1.3 | 23.6 | 14.3 | 27 | 3.3 |
| 300 | 31 | 1.3 | 23.6 | 14.3 | 27 | 3.3 | 31 | 1.3 | 23.6 | 14.3 | 27 | 3.3 | 31 | 1.3 | 23.6 | 14.3 | 27 | 3.3 | 31 | 1.3 | 23.6 | 14.3 | 27 | 3.3 | 31 | 1.3 | 23.6 | 14.3 | 27 | 3.3 |
| 250 | 31 | 1.3 | 23.6 | 14.3 | 27 | 3.3 | 31 | 1.3 | 23.6 | 14.3 | 27 | 3.3 | 31 | 1.3 | 23.6 | 14.3 | 27 | 3.3 | 31 | 1.3 | 23.6 | 14.3 | 27 | 3.3 | 31 | 1.3 | 23.6 | 14.3 | 27 | 3.3 |
| 200 | 31 | 1.3 | 23.6 | 14.3 | 27 | 3.3 | 31 | 1.3 | 23.6 | 14.3 | 27 | 3.3 | 31 | 1.3 | 23.6 | 14.3 | 27 | 3.3 | 31 | 1.3 | 23.6 | 14.3 | 27 | 3.3 | 31 | 1.3 | 23.6 | 14.3 | 27 | 3.3 |
| 150 | 31 | 1.3 | 23.6 | 14.3 | 27 | 3.3 | 31 | 1.3 | 23.6 | 14.3 | 27 | 3.3 | 31 | 1.3 | 23.6 | 14.3 | 27 | 3.3 | 31 | 1.3 | 23.6 | 14.3 | 27 | 3.3 | 31 | 1.3 | 23.6 | 14.3 | 27 | 3.3 |
| 100 | 31 | 1.3 | 23.6 | 14.3 | 27 | 3.3 | 31 | 1.3 | 23.6 | 14.3 | 27 | 3.3 | 31 | 1.3 | 23.6 | 14.3 | 27 | 3.3 | 31 | 1.3 | 23.6 | 14.3 | 27 | 3.3 | 31 | 1.3 | 23.6 | 14.3 | 27 | 3.3 |
| 50 | 31 | 1.3 | 23.6 | 14.3 | 27 | 3.3 | 31 | 1.3 | 23.6 | 14.3 | 27 | 3.3 | 31 | 1.3 | 23.6 | 14.3 | 27 | 3.3 | 31 | 1.3 | 23.6 | 14.3 | 27 | 3.3 | 31 | 1.3 | 23.6 | 14.3 | 27 | 3.3 |
| 0 | 31 | 1.3 | 23.6 | 14.3 | 27 | 3.3 | 31 | 1.3 | 23.6 | 14.3 | 27 | 3.3 | 31 | 1.3 | 23.6 | 14.3 | 27 | 3.3 | 31 | 1.3 | 23.6 | 14.3 | 27 | 3.3 | 31 | 1.3 | 23.6 | 14.3 | 27 | 3.3 |
| 5 | 31 | 1.3 | 23.6 | 14.3 | 27 | 3.3 | 31 | 1.3 | 23.6 | 14.3 | 27 | 3.3 | 31 | 1.3 | 23.6 | 14.3 | 27 | 3.3 | 31 | 1.3 | 23.6 | 14.3 | 27 | 3.3 | 31 | 1.3 | 23.6 | 14.3 | 27 | 3.3 |

RAWINSONDE DATA

Average monthly values

AUGUST 1979

| DRAC JUNCTION, CALIF.
854 MB | | | | | | | | | | GREAT FALLS, MONT.
888 MB | | | | | | | | | | GREEN BAY, WIS.
990 MB | | | | | | | | | | GREENSBORO, N. C.
984 MB | | | | | | | | | | GLYM, MARIANA IS.
998 MB | | | | | | | | | |
|-----------------------------------|--------------------|----------------|-------------|-----------|-----------|-------|--------------------|----------------|-------------|------------------------------|-----------|-------|--------------------|----------------|-------------|-----------|-----------|-------|--------------------|---------------------------|-------------|-----------|-----------|-------|--------------------|----------------|-------------|-----------|-----------|-----------------------------|--------------------|----------------|-------------|-----------|-----------|-------|--------------------|----------------|-------------|-----------------------------|-----------|-------|--|--|--|--|--|--|--|
| Standard pressure
surface (mb) | No of observations | Dynamic height | Temperature | Dew Point | Direction | Speed | No of observations | Dynamic height | Temperature | Dew Point | Direction | Speed | No of observations | Dynamic height | Temperature | Dew Point | Direction | Speed | No of observations | Dynamic height | Temperature | Dew Point | Direction | Speed | No of observations | Dynamic height | Temperature | Dew Point | Direction | Speed | No of observations | Dynamic height | Temperature | Dew Point | Direction | Speed | No of observations | Dynamic height | Temperature | Dew Point | Direction | Speed | | | | | | | |
| SURFACE | 31 | 17.72 | 19.6 | 7.0 | 12 | 1.4 | 31 | 11.18 | 14.3 | 3.8 | 23 | 2.6 | 31 | 210 | 15.1 | 12.8 | 26 | 1.1 | 31 | 275 | 19.5 | 18.2 | 04 | 2.2 | 31 | 111 | 24.6 | 23.7 | 10 | 1.1 | 31 | 111 | 24.6 | 23.7 | 10 | 1.1 | 31 | 111 | 24.6 | 23.7 | 10 | 1.1 | | | | | | | |
| 1000 | 31 | 82 | | | | | 31 | 101 | | | | | 31 | 125 | | | | | 31 | 139 | | | | | 31 | 89 | | | | | 31 | 139 | | | | | 31 | 89 | | | | | | | | | | | |
| 950 | 31 | 537 | | | | | 31 | 563 | | | | | 31 | 564 | 18.2 | 11.4 | 27 | 3.4 | 31 | 584 | 21.9 | 17.3 | 31 | 1.6 | 31 | 542 | 23.8 | 22.1 | 11 | 3.3 | 31 | 542 | 23.8 | 22.1 | 11 | 3.3 | 31 | 542 | 23.8 | 22.1 | 11 | 3.3 | | | | | | | |
| 900 | 31 | 1010 | | | | | 31 | 1009 | | | | | 31 | 1009 | 12.8 | 8.0 | 28 | 5.8 | 31 | 1054 | 16.3 | 10.2 | 33 | 1.7 | 31 | 1009 | 21.1 | 18.4 | 12 | 2.8 | 31 | 1009 | 21.1 | 18.4 | 12 | 2.8 | 31 | 1009 | 21.1 | 18.4 | 12 | 2.8 | | | | | | | |
| 850 | 31 | 1506 | 20.7 | 7.2 | 12 | 3.6 | 31 | 1503 | 18.7 | 7.9 | 24 | 3.6 | 31 | 1503 | 18.7 | 7.9 | 24 | 3.6 | 31 | 1554 | 16.3 | 10.2 | 33 | 1.7 | 31 | 1509 | 18.1 | 15.1 | 12 | 2.8 | 31 | 1509 | 18.1 | 15.1 | 12 | 2.8 | 31 | 1509 | 18.1 | 15.1 | 12 | 2.8 | | | | | | | |
| 800 | 31 | 2031 | 20.1 | 5.6 | 13 | 3.4 | 31 | 2011 | 15.7 | 1.7 | 25 | 4.2 | 31 | 2017 | 10.2 | -7.2 | 28 | 7.1 | 31 | 2058 | 13.4 | 6.9 | 29 | 2.5 | 31 | 2037 | 15.5 | 11.9 | 13 | 2.9 | 31 | 2037 | 15.5 | 11.9 | 13 | 2.9 | 31 | 2037 | 15.5 | 11.9 | 13 | 2.9 | | | | | | | |
| 750 | 31 | 2585 | 17.3 | 3.4 | 18 | 2.7 | 31 | 2555 | 12.0 | -4.5 | 25 | 5.9 | 31 | 2552 | 8.0 | -7.6 | 29 | 8.2 | 31 | 2599 | 10.6 | 1.8 | 29 | 3.8 | 31 | 2573 | 12.7 | 8.5 | 12 | 2.7 | 31 | 2573 | 12.7 | 8.5 | 12 | 2.7 | 31 | 2573 | 12.7 | 8.5 | 12 | 2.7 | | | | | | | |
| 700 | 31 | 3170 | 13.3 | 2.2 | 24 | 2.4 | 31 | 3127 | 7.7 | -7.8 | 24 | 8.7 | 31 | 3118 | 4.8 | -10.4 | 29 | 8.5 | 31 | 3171 | 7.4 | -2.1 | 28 | 4.7 | 31 | 3150 | 9.5 | 4.4 | 12 | 2.4 | 31 | 3150 | 9.5 | 4.4 | 12 | 2.4 | 31 | 3150 | 9.5 | 4.4 | 12 | 2.4 | | | | | | | |
| 650 | 31 | 3789 | 8.6 | -1.1 | 25 | 2.1 | 31 | 3733 | 3.4 | -10.9 | 25 | 10.7 | 31 | 3720 | 1.9 | -14.9 | 29 | 9.5 | 31 | 3777 | 4.0 | -5.6 | 28 | 5.7 | 31 | 3753 | 6.3 | 3.1 | 12 | 2.3 | 31 | 3753 | 6.3 | 3.1 | 12 | 2.3 | 31 | 3753 | 6.3 | 3.1 | 12 | 2.3 | | | | | | | |
| 600 | 31 | 4445 | 3.2 | -1.9 | 25 | 2.3 | 31 | 4377 | -1.2 | -13.8 | 25 | 12.3 | 31 | 4351 | -1.7 | -18.1 | 29 | 11.3 | 31 | 4424 | -6.1 | -11.5 | 28 | 5.6 | 31 | 4414 | 2.3 | -1.5 | 12 | 2.3 | 31 | 4414 | 2.3 | -1.5 | 12 | 2.3 | 31 | 4414 | 2.3 | -1.5 | 12 | 2.3 | | | | | | | |
| 550 | 31 | 5143 | -2.4 | | | | 31 | 5104 | -6.2 | -19.3 | 26 | 13.5 | 31 | 5104 | -6.1 | -22.3 | 29 | 13.2 | 31 | 5119 | -2.9 | -17.1 | 28 | 6.6 | 31 | 5114 | -1.6 | -5.7 | 13 | 2.1 | 31 | 5114 | -1.6 | -5.7 | 13 | 2.1 | 31 | 5114 | -1.6 | -5.7 | 13 | 2.1 | | | | | | | |
| 500 | 31 | 6482 | -7.6 | -15.7 | 25 | 4.0 | 31 | 6403 | -11.0 | -26.7 | 26 | 14.4 | 31 | 6786 | -11.1 | -25.8 | 29 | 14.5 | 31 | 6868 | -7.4 | -22.4 | 28 | 7.0 | 31 | 6868 | -5.9 | -10.9 | 10 | 1.8 | 31 | 6868 | -5.9 | -10.9 | 10 | 1.8 | 31 | 6868 | -5.9 | -10.9 | 10 | 1.8 | | | | | | | |
| 450 | 31 | 6705 | -11.9 | -23.2 | 25 | 4.3 | 31 | 6604 | -16.3 | -32.1 | 26 | 15.8 | 31 | 6688 | -16.3 | -31.5 | 29 | 16.9 | 31 | 6881 | -12.2 | -28.2 | 28 | 8.2 | 31 | 6887 | -10.4 | -17.7 | 10 | 1.4 | 31 | 6887 | -10.4 | -17.7 | 10 | 1.4 | 31 | 6887 | -10.4 | -17.7 | 10 | 1.4 | | | | | | | |
| 400 | 31 | 7598 | -17.7 | -30.4 | 26 | 5.3 | 31 | 7479 | -22.8 | -37.3 | 26 | 18.3 | 31 | 7658 | -22.1 | -37.6 | 29 | 18.2 | 31 | 7872 | -18.0 | -33.0 | 28 | 8.8 | 31 | 7885 | -16.1 | -23.9 | 07 | 1.5 | 31 | 7885 | -16.1 | -23.9 | 07 | 1.5 | 31 | 7885 | -16.1 | -23.9 | 07 | 1.5 | | | | | | | |
| 350 | 31 | 8586 | -24.8 | -36.8 | 26 | 7.4 | 31 | 8447 | -29.9 | -42.5 | 26 | 15.6 | 31 | 8635 | -29.1 | -43.5 | 29 | 22.7 | 31 | 8859 | -24.9 | -39.3 | 28 | 11.0 | 31 | 8858 | -22.7 | -31.5 | 08 | 1.8 | 31 | 8858 | -22.7 | -31.5 | 08 | 1.8 | 31 | 8858 | -22.7 | -31.5 | 08 | 1.8 | | | | | | | |
| 300 | 31 | 9537 | -32.7 | -45.1 | 26 | 11.1 | 31 | 9434 | -38.2 | -50.2 | 26 | 21.8 | 31 | 9518 | -36.8 | -50.6 | 29 | 26.9 | 31 | 9659 | -33.1 | -47.1 | 28 | 12.9 | 31 | 9659 | -31.1 | -40.0 | 06 | 3.2 | 31 | 9659 | -31.1 | -40.0 | 06 | 3.2 | 31 | 9659 | -31.1 | -40.0 | 06 | 3.2 | | | | | | | |
| 250 | 31 | 10594 | -42.5 | -54.3 | 26 | 14.3 | 31 | 10756 | -48.2 | -60.2 | 26 | 28.0 | 31 | 10758 | -45.0 | -60.2 | 29 | 29.7 | 31 | 10916 | -42.7 | -57.1 | 28 | 14.1 | 31 | 10956 | -41.3 | -50.6 | 05 | 5.6 | 31 | 10956 | -41.3 | -50.6 | 05 | 5.6 | 31 | 10956 | -41.3 | -50.6 | 05 | 5.6 | | | | | | | |
| 200 | 31 | 12417 | -53.2 | -62.6 | 26 | 16.0 | 31 | 12415 | -52.4 | -62.6 | 26 | 29.1 | 31 | 12421 | -52.5 | -62.6 | 29 | 31.2 | 31 | 12386 | -53.5 | -63.5 | 29 | 16.4 | 31 | 12430 | -54.1 | -63.7 | 03 | 7.7 | 31 | 12430 | -54.1 | -63.7 | 03 | 7.7 | 31 | 12430 | -54.1 | -63.7 | 03 | 7.7 | | | | | | | |
| 175 | 31 | 13266 | -58.7 | -67.7 | 27 | 14.5 | 31 | 13073 | -55.2 | -67.7 | 27 | 26.0 | 31 | 13078 | -55.4 | -67.7 | 30 | 28.4 | 31 | 13235 | -58.9 | -69.9 | 30 | 15.6 | 31 | 13273 | -61.3 | -69.6 | 02 | 9.4 | 31 | 13273 | -61.3 | -69.6 | 02 | 9.4 | 31 | 13273 | -61.3 | -69.6 | 02 | 9.4 | | | | | | | |
| 150 | 31 | 14221 | -64.6 | -73.7 | 27 | 13.6 | 31 | 14050 | -58.3 | -73.7 | 27 | 22.1 | 31 | 14058 | -58.2 | -73.7 | 30 | 23.1 | 31 | 14191 | -63.5 | -73.7 | 30 | 13.5 | 31 | 14213 | -66.8 | -73.7 | 03 | 10.5 | 31 | 14213 | -66.8 | -73.7 | 03 | 10.5 | 31 | 14213 | -66.8 | -73.7 | 03 | 10.5 | | | | | | | |
| 120 | 31 | 15324 | -69.9 | -80.9 | 27 | 8.8 | 31 | 15191 | -60.6 | -80.9 | 27 | 16.4 | 31 | 15199 | -60.4 | -80.9 | 30 | 17.5 | 31 | 15301 | -67.7 | -80.9 | 30 | 8.4 | 31 | 15377 | -71.1 | -80.9 | 04 | 9.5 | 31 | 15377 | -71.1 | -80.9 | 04 | 9.5 | 31 | 15377 | -71.1 | -80.9 | 04 | 9.5 | | | | | | | |
| 100 | 31 | 16555 | -68.7 | -77.7 | 27 | 3.9 | 31 | 16581 | -60.2 | -77.7 | 27 | 10.0 | 31 | 16589 | -60.2 | -77.7 | 30 | 10.9 | 31 | 16648 | -66.1 | -77.7 | 31 | 4.2 | 31 | 16553 | -69.6 | -77.7 | 07 | 10.3 | 31 | 16553 | -69.6 | -77.7 | 07 | 10.3 | 31 | 16553 | -69.6 | -77.7 | 07 | 10.3 | | | | | | | |
| 80 | 31 | 18007 | -64.3 | -72.7 | 22 | 4.4 | 31 | 17979 | -58.7 | -72.7 | 22 | 4.8 | 31 | 17989 | -58.0 | -72.7 | 31 | 5.5 | 31 | 18012 | -62.7 | -72.7 | 31 | 4.1 | 31 | 18057 | -71.5 | -72.7 | 08 | 15.9 | 31 | 18057 | -71.5 | -72.7 | 08 | 15.9 | 31 | 18057 | -71.5 | -72.7 | 08 | 15.9 | | | | | | | |
| 70 | 31 | 18630 | -61.2 | -70.7 | 09 | 1.6 | 31 | 18822 | -57.0 | -70.7 | 09 | 2.1 | 31 | 18834 | -56.3 | -70.7 | 34 | 3.1 | 31 | 18840 | -60.2 | -70.7 | 34 | 2.7 | 31 | 18852 | -68.7 | -70.7 | 09 | 16.1 | 31 | 18852 | -68.7 | -70.7 | 09 | 16.1 | 31 | 18852 | -68.7 | -70.7 | 09 | 16.1 | | | | | | | |
| 60 | 31 | 19793 | -58.9 | -68.7 | 08 | 4.1 | 31 | 19803 | -55.2 | -68.7 | 08 | 1.1 | 31 | 19818 | -54.7 | -68.7 | 05 | 2.0 | 31 | 19807 | -58.5 | -68.7 | 05 | 6.4 | 31 | 19881 | -65.7 | -68.7 | 09 | 19.9 | 31 | 19881 | -65.7 | -68.7 | 09 | 19.9 | 31 | 19881 | -65.7 | -68.7 | 09 | 19.9 | | | | | | | |
| 50 | 31 | 20944 | -56.9 | -66.7 | 08 | 5.6 | 31 | 20971 | -53.2 | -66.7 | 08 | 1.6 | 31 | 20993 | -53.0 | -66.7 | 05 | 3.7 | 31 | 20960 | -55.8 | -66.7 | 05 | 6.0 | 31 | 20989 | -62.4 | -66.7 | 09 | 22.0 | 31 | 20989 | -62.4 | -66.7 | 09 | 22.0 | 31 | 20989 | -62.4 | -66.7 | 09 | 22.0 | | | | | | | |
| 40 | 31 | 22370 | -54.3 | -64.3 | 09 | 2.0 | 31 | 22371 | -52.1 | -64.3 | 09 | 2.0 | 31 | 22382 | -51.1 | -64.3 | 05 | 1.1 | 31 | 22396 | -55.3 | -64.3 | 05 | 1.9 | 31 | 22376 | -59.1 | -64.3 | 09 | 27.2 | 31 | 22376 | -59.1 | -64.3 | 09 | 27.2 | 31 | 22376 | -59.1 | -64.3 | 09 | 27.2 | | | | | | | |
| 30 | 31 | 24228 | -51.3 | -61.3 | 09 | 9.0 | 31 | 24286 | -49.2 | -61.3 | 08 | 4.7 | 31 | 24317 | -48.6 | -61.3 | 08 | 6.4 | 31 | 24261 | -49.9 | -61.3 | 08 | 11.5 | 31 | 23911 | -54.7 | -61.3 | 09 | 31.4 | 31 | 23911 | -54.7 | -61.3 | 09 | 31.4 | 31 | 23911 | -54.7 | -61.3 | 09 | 31.4 | | | | | | | |
| 25 | 31 | 25427 | -49.2 | -61.3 | 09 | 10.0 | 31 | 25485 | -48.0 | -61.3 | 08 | 5.4 | 31 | 25522 | -47.1 | -61.3 | 08 | 7.4 | 31 | 25457 | -48.5 | -61.3 | 08 | 11.9 | 31 | 25084 | -52.1 | -61.3 | 09 | 32.8 | 31 | 25084 | -52.1 | -61.3 | 09 | 32.8 | 31 | 25084 | -52.1 | -61.3 | 09 | 32.8 | | | | | | | |
| 20 | 31 | 26898 | -47.3 | -61.3 | 09 | 10.4 | 31 | 26945 | -45.7 | -61.3 | 08 | 5.8 | 31 | 27004 | -45.2 | -61.3 | 09 | 7.0 | 31 | 26933 | -46.5 | -61.3 | 09 | 13.2 | 31 | 26541 | -49.1 | -61.3 | 09 | 31.5 | 31 | 26541 | -49.1 | -61.3 | 09 | 31.5 | 31 | 26541 | -49.1 | -61.3 | 09 | 31.5 | | | | | | | |
| 15 | 31 | 28808 | -45.3 | -61.3 | 09 | 10.6 | 31 | 28896 | -43.7 | -61.3 | 08 | 6.7 | 31 | 28936 | -42.8 | -61.3 | 09 | 8.5 | 31 | 28855 | -44.8 | -61.3 | 09 | 15.1 | 31 | 28439 | -46.6 | -61.3 | 09 | 29.2 | 31 | 28439 | -46.6 | -61.3 | 09 | 29.2 | 31 | 28439 | -46.6 | -61.3 | 09 | 29.2 | | | | | | | |
| 10 | 31 | 31542 | -41.1 | -61.3 | 08 | 14.9 | 31 | 31652 | -38.3 | -61.3 | 08 | 8.5 | 31 | 31692 | -38.7 | -61.3 | 09 | 7.7 | 31 | 31599 | -40.0 | -61.3 | 10 | 17.7 | 31 | 31440 | -43.2 | -61.3 | 09 | 31.5 | 31 | 31440 | -43.2 | -61.3 | 09 | 31.5 | 31 | 31440 | -43.2 | -61.3 | 09 | 31.5 | | | | | | | |
| 5 | 31 | 36466 | -31.8 | | | | 18 | 34113 | -34.7 | | 10 | 10.7 | 7 | 34111 | -36.0 | | | | | | | | | | | | | </ | | | | | | | | | | | | | | | | | | | | | |

Average monthly values

[illegible]

| MCGRATH, ALASKA
996 MB | | | | | HAIKURO, MARSHALL IS.
101C MB | | | | | MENFORD, OREG.
968 MB | | | | | MERIDA, MEXICO
1011 MB | | | | | MIAMI, FLA.
1015 MB | | | | | | | | | | | |
|---------------------------|----|-------|--------|-------|----------------------------------|-----|----|-------|-------|--------------------------|-----|------|-------|--------|---------------------------|-------|-----|------|-------|------------------------|-------|-------|------|------|-------|--------|-------|-------|------|------|--|
| SURFACE | 29 | 103 | 8.2 | 4.8 | 25 | 1.1 | 31 | 3 | 28.2 | 24.1 | 09 | -4.3 | 31 | -4.1 | 14.0 | 7.2 | 27 | -3.3 | 11 | 23.2 | 22.8 | 09 | -9.3 | 31 | -9.2 | 26.5 | 23.9 | 11 | -7.7 | | |
| 1000 | 29 | 54 | | | | 31 | 95 | 26.4 | 20.5 | 05.09 | 5.2 | 31 | 127 | | | | | 3.8 | 31 | 109 | 24.2 | 23.4 | 12 | 3.8 | 31 | 95 | 26.8 | 23.8 | 13 | -2.1 | |
| 950 | 29 | 491 | 9.01 | 4.7 | 20 | 2.3 | 31 | 547 | 23.3 | 18.6 | 09 | 7.2 | 31 | 563 | 16.8 | 6.5 | 27 | -8.3 | 31 | 560 | 23.7 | 19.7 | 12 | 8.2 | 31 | 558 | 23.2 | 20.6 | 14 | -4.7 | |
| 900 | 29 | 437 | 6.4 | 2.7 | 20 | 3.2 | 31 | 1018 | 20.6 | 15.4 | 10 | 7.9 | 31 | 1024 | 15.8 | 3.7 | 27 | -8.3 | 31 | 1039 | 21.3 | 15.8 | 12 | 7.7 | 31 | 1028 | 22.4 | 18.6 | 14 | -4.7 | |
| 850 | 29 | 1403 | 3.3 | 0.3 | 5.20 | 4.3 | 31 | 20.7 | 15.2 | 10.0 | 8.4 | 31 | 20.24 | 1.1 | -6.3 | 17 | 1.8 | 31 | 20.04 | 15.9 | 6.1 | 11 | 9.9 | 31 | 20.52 | 18.1 | 16.6 | 14 | -4.7 | | |
| 800 | 29 | 1693 | 3 | -2.4 | 19 | 4.4 | 31 | 2027 | 15.2 | 8.2 | 09 | 8.4 | 31 | 20.24 | 1.1 | -6.3 | 17 | 1.8 | 31 | 20.04 | 15.9 | 6.1 | 11 | 9.9 | 31 | 20.52 | 18.1 | 16.6 | 14 | -4.7 | |
| 750 | 29 | 2408 | -2.7 | -6.3 | 20 | 4.2 | 31 | 2572 | 12.6 | 4.8 | 09 | 8.9 | 31 | 25.66 | 11.3 | -8.5 | 20 | 4.4 | 31 | 25.92 | 12.9 | 1.7 | 11 | 6.1 | 31 | 26.15 | 12.4 | 1.5 | 14 | -4.7 | |
| 700 | 29 | 2952 | -5.7 | -10.5 | 19 | 3.7 | 31 | 3149 | 9.7 | 1.1 | 09 | 8.4 | 31 | 31.198 | 7.5 | -12.9 | 21 | 6.6 | 31 | 31.09 | 9.6 | -1.1 | 11 | 6.5 | 31 | 31.91 | 9.2 | -2.8 | 14 | -4.7 | |
| 650 | 29 | 3530 | -8.8 | -14.5 | 20 | 3.3 | 31 | 3761 | 6.4 | -2.1 | 09 | 8.7 | 31 | 37.744 | -4.1 | -18.6 | 21 | 7.7 | 31 | 37.781 | 6.0 | -3.2 | 12 | 5.4 | 31 | 37.82 | 5.6 | -4.9 | 14 | -4.7 | |
| 600 | 29 | 4116 | -12.3 | -18.6 | 20 | 3.4 | 31 | 4344 | 2.8 | -6.1 | 09 | 8.7 | 31 | 41.166 | -2.2 | -22.3 | 22 | 9.1 | 31 | 41.203 | 2.1 | -1.5 | 09 | 5.6 | 31 | 41.92 | 1.8 | -9.5 | 14 | -4.7 | |
| 550 | 29 | 4807 | -16.1 | -23.0 | 20 | 3.5 | 31 | 5174 | -1.4 | -10.1 | 10 | 7.7 | 31 | 50.081 | -4.2 | -25.2 | 22 | 9.1 | 31 | 50.130 | -3.0 | -1.5 | 09 | 5.6 | 31 | 50.49 | -2.2 | -13.9 | 11 | -4.7 | |
| 500 | 29 | 5518 | -20.9 | -29.1 | 12 | 3.6 | 31 | 5870 | -5.2 | -16.0 | 09 | 7.3 | 31 | 57.825 | -9.3 | -30.2 | 22 | 11.0 | 31 | 57.882 | -6.5 | -17.2 | 07 | 6.3 | 31 | 57.90 | -6.3 | -19.6 | 09 | 1.7 | |
| 450 | 29 | 6289 | -25.9 | -34.3 | 24 | 4.1 | 31 | 6691 | -9.5 | -21.3 | 08 | 8.6 | 31 | 66.631 | -15.0 | -35.7 | 23 | 12.3 | 31 | 66.699 | -10.9 | -23.7 | 07 | 7.2 | 31 | 67.18 | -11.1 | -24.6 | 09 | 1.7 | |
| 400 | 29 | 7131 | -32.1 | -40.4 | 25 | 5.0 | 31 | 7592 | -14.8 | -28.7 | 09 | 7.9 | 31 | 75.509 | -21.9 | -40.6 | 23 | 14.8 | 31 | 75.594 | -16.6 | -30.5 | 07 | 6.8 | 31 | 76.03 | -16.6 | -29.9 | 07 | -4.0 | |
| 350 | 29 | 8065 | -38.9 | -43.9 | 26 | 5.3 | 31 | 8592 | -21.6 | -35.8 | 08 | 7.4 | 31 | 85.401 | -29.1 | -46.5 | 23 | 17.4 | 31 | 85.587 | -23.5 | -37.8 | 07 | 5.5 | 31 | 86.07 | -22.2 | -37.9 | 07 | -5.7 | |
| 300 | 29 | 9101 | -46.8 | -52.6 | 27 | 6.1 | 31 | 9707 | -30.2 | -42.7 | 08 | 7.1 | 31 | 96.563 | -32.9 | -49.2 | 23 | 19.3 | 31 | 96.639 | -24.9 | -46.6 | 06 | 5.4 | 31 | 97.13 | -31.1 | -48.5 | 05 | -7.8 | |
| 250 | 29 | 10297 | -51.1 | | 27 | 7.6 | 31 | 10979 | -40.2 | -52.7 | 08 | 5.2 | 31 | 10.801 | -44.8 | | 23 | 24.1 | 31 | 10.954 | -42.0 | | 06 | 4.8 | 31 | 10.976 | -41.7 | -53.5 | 05 | 11.4 | |
| 200 | 28 | 11742 | -68.6 | | 26 | 7.0 | 31 | 12461 | -52.6 | | 06 | 7.6 | 31 | 12.274 | -55.9 | | 24 | 23.5 | 31 | 12.246 | -53.0 | | 05 | 4.7 | 31 | 12.249 | -53.9 | | 25 | 11.4 | |
| 175 | 28 | 12621 | -67.7 | | 26 | 7.2 | 31 | 13331 | -59.4 | | 35 | 1.1 | 30 | 13.139 | -54.6 | | 23 | 22.4 | 29 | 13.271 | -60.2 | | 05 | 5.5 | 31 | 13.349 | -60.2 | | 24 | 11.9 | |
| 150 | 28 | 13639 | -67.7 | | 26 | 6.9 | 31 | 14258 | -67.7 | | 30 | 3.2 | 31 | 14.116 | -59.2 | | 24 | 18.6 | 28 | 14.217 | -60.2 | | 05 | 5.7 | 31 | 14.261 | -66.5 | | 24 | 11.9 | |
| 125 | 28 | 14841 | -68.5 | | 25 | 6.5 | 31 | 15349 | -74.2 | | 26 | 1.5 | 31 | 15.251 | -61.2 | | 26 | 13.1 | 28 | 15.303 | -61.5 | | 05 | 8.5 | 31 | 15.331 | -61.5 | | 25 | 11.3 | |
| 100 | 27 | 16311 | -68.5 | | 25 | 5.4 | 31 | 16626 | -75.3 | | 16 | 1.1 | 30 | 16.631 | -61.7 | | 24 | 6.5 | 25 | 16.612 | -7.9 | | 07 | 11.9 | 30 | 16.659 | -69.1 | | 27 | 11.4 | |
| 75 | 27 | 17779 | -68.6 | | 25 | 3.9 | 31 | 17736 | -70.4 | | 09 | 6.7 | 30 | 18.017 | -60.4 | | 9 | 1.6 | 25 | 17.940 | -68.3 | | 08 | 14.0 | 30 | 18.052 | -66.0 | | 08 | 15.4 | |
| 50 | 27 | 18657 | -68.6 | | 25 | 3.4 | 31 | 18737 | -66.3 | | 10 | 8.6 | 30 | 18.653 | -58.9 | | 13 | 8.8 | 25 | 18.747 | -65.7 | | 08 | 15.0 | 30 | 18.817 | -64.4 | | 08 | 15.7 | |
| 25 | 27 | 19671 | -68.7 | | 25 | 3.1 | 31 | 19676 | -64.2 | | 09 | 12.3 | 30 | 19.826 | -56.7 | | 16 | 2.1 | 25 | 19.689 | -62.7 | | 08 | 17.8 | 30 | 19.746 | -61.7 | | 08 | 18.4 | |
| 0 | 27 | 20670 | -68.6 | | 24 | 1.7 | 31 | 20779 | -61.6 | | 09 | 21.1 | 30 | 20.988 | -54.6 | | 08 | 3.5 | 20 | 20.821 | -60.0 | | 08 | 21.0 | 30 | 20.942 | -59.2 | | 08 | 21.6 | |
| 0 | 27 | 22339 | -68.5 | | 24 | 1.3 | 31 | 22439 | -56.2 | | 09 | 29.9 | 30 | 22.084 | -49.2 | | 08 | 2.2 | 22 | 22.221 | -57.0 | | 08 | 29.8 | 30 | 22.319 | -55.9 | | 09 | 21.5 | |
| 0 | 27 | 24238 | -67.6 | | 18 | 5 | 31 | 24273 | -53.2 | | 09 | 3.6 | 30 | 24.288 | -50.4 | | 08 | 6.4 | 22 | 24.670 | -53.0 | | 09 | 29.3 | 27 | 24.715 | -50.9 | | 17 | 15.8 | |
| 25 | 26 | 25451 | -66.6 | | 06 | 7.3 | 31 | 25205 | -50.5 | | 09 | 35.6 | 29 | 25.840 | -48.9 | | 09 | 7.1 | 22 | 25.254 | -50.0 | | 09 | 29.4 | 27 | 25.369 | -48.7 | | 27 | 15.7 | |
| 20 | 26 | 26937 | -65.2 | | 06 | 9.2 | 26 | 26878 | -46.5 | | 09 | 33.7 | 29 | 26.953 | -46.7 | | 09 | 7.4 | 10 | 26.715 | -46.0 | | 09 | 29.9 | 26 | 26.856 | -46.6 | | 06 | 24.4 | |
| 15 | 26 | 28684 | -63.6 | | 05 | 7.6 | 25 | 28609 | -42.2 | | 09 | 22.9 | 27 | 28.673 | -44.2 | | 09 | 8.2 | 11 | 28.634 | -45.0 | | 09 | 11.8 | 27 | 28.719 | -43.8 | | | | |
| 10 | 26 | 31581 | -60.0 | | 13 | 2.6 | 19 | 31533 | -39.9 | | 09 | 14.1 | 26 | 31.533 | -40.3 | | 09 | 9.4 | 5 | 31.347 | -42.5 | | | | | | | | | | |
| 7 | 5 | 34912 | -30.12 | | | 3 | 31 | 34926 | -37.0 | | 09 | 18.8 | 30 | 35.053 | -36.5 | | 08 | 16.7 | | | | | | | | | | | | | |

| MIDLAND, TEXAS
916 MB | | | | MONTEPELIER, VERMONT
962 MB | | | | MONTGOMERY, ALA.
1009 MB | | | | * MANTUQUET, MASS.
1013 MB | | | | NASHVILLE, TENN.
994 MB | | | | |
|--------------------------|-----|-----|--------------------|--------------------------------|------|--------------------|----------------|-----------------------------|--------------------|----------------|--------------|-------------------------------|----------------|------|--------------------|----------------------------|----|-----|--------------|--|
| S FACE | 3. | 874 | 21.1 13.4 14 | 2.1 | 28 | 423 | 22.9 21.6 14 | 5.3 | 35 | 57 | 22.5 21.7 29 | 2.2 | 38 | 13 | 19.3 15.5 27 | 2.4 | 33 | 883 | 22.2 19.9 11 | |
| | 950 | 3. | 108 | 2. | 28 | 76 | | 1.5 | 35 | 21 | 22.5 22.8 | 2.2 | 38 | 13 | 19.3 15.5 27 | 2.4 | 33 | 130 | | |
| | 950 | 3. | 517 | 2. | 28 | 536 | | 1.5 | 35 | 21 | 22.5 22.8 | 2.2 | 38 | 13 | 19.3 15.5 27 | 2.4 | 33 | 130 | | |
| | 900 | 3. | 1028 23.1 14.5 15 | 4.7 | 24 | 1027 20.9 16.1 13 | 1.7 | 35 | 1055 20.5 17.2 24 | 1.5 | 38 | 1030 16.0 7.5 9 | 4.3 | 33 | 10048 14.7 15.8 25 | | | | | |
| | 850 | 3. | 1525 21.2 11.1 18 | 6.1 | 24 | 1522 19.2 13.1 13 | 5.4 | 35 | 1545 14.5 14.4 22 | 1.5 | 38 | 1513 13.0 7.5 9 | 4.3 | 33 | 15339 15.5 14.4 25 | | | | | |
| | 800 | 3. | 2049 18.4 7.0 16 | 2.4 | 28 | 2043 17.1 8.9 13 | 4.4 | 35 | 2065 14.5 14.5 22 | 1.5 | 38 | 2021 10.5 7.5 9 | 4.3 | 33 | 2046 14.7 15.8 25 | | | | | |
| | 700 | 3. | 2599 14.7 4.2 08 | 2.5 | 28 | 2591 13.8 4.3 12 | 1.1 | 35 | 2615 14.4 5.2 22 | 1.5 | 38 | 2555 10.5 7.5 9 | 4.3 | 33 | 2599 14.7 15.8 25 | | | | | |
| | 700 | 3. | 3179 11.7 2.5 06 | 2.2 | 28 | 3171 10.7 2.4 13 | 3.1 | 35 | 3183 11.3 3.2 22 | 1.5 | 38 | 3122 5.2 4.2 27 | 4.4 | 33 | 3168 11.7 12.8 25 | | | | | |
| | 650 | 3. | 3793 6.9 06.4 06 | 1.5 | 28 | 3785 6.8 06.1 06 | 1.3 | 35 | 3792 5.4 4.2 22 | 1.5 | 38 | 3724 4.2 4.2 27 | 10.0 | 33 | 3755 6.9 7.0 25 | | | | | |
| | 600 | 3. | 4446 3.1 9.5 07 | 1.2 | 28 | 4438 2.8 9.8 03 | 2.0 | 35 | 4442 1.1 8.4 24 | 1.5 | 38 | 4386 1.2 10.2 27 | 11.7 | 33 | 4423 3.1 10.2 25 | | | | | |
| | 550 | 3. | 5146 1.3 14.9 08 | 2.5 | 28 | 5137 1.5 14.3 07 | 2.4 | 35 | 5139 1.9 14.5 27 | 1.5 | 38 | 5055 1.5 14.5 27 | 12.4 | 33 | 5117 1.3 14.5 25 | | | | | |
| | 500 | 3. | 5898 0.6 20.0 09 | 2.2 | 28 | 5889 0.6 20.0 07 | 1.3 | 35 | 5891 0.6 20.0 27 | 1.5 | 38 | 5797 0.6 20.0 27 | 14.7 | 33 | 5867 0.6 20.0 25 | | | | | |
| | 450 | 3. | 6718 12.7 7.2 08 | 1.7 | 28 | 6705 11.3 6.9 07 | 2.1 | 35 | 6709 11.3 6.9 27 | 1.5 | 38 | 6602 10.7 31.4 27 | 16.1 | 33 | 6626 11.3 7.2 25 | | | | | |
| | 400 | 3. | 7610 16.9 33.3 05 | 2.5 | 28 | 7598 17.2 30.7 04 | 4.7 | 35 | 7604 16.5 32.1 27 | 1.5 | 38 | 7484 12.1 33.4 27 | 17.4 | 33 | 7513 16.9 33.3 25 | | | | | |
| | 350 | 3. | 8603 23.6 38.3 05 | 1.3 | 28 | 8590 24.1 37.9 09 | 7.3 | 35 | 8578 23.5 37.5 27 | 1.5 | 38 | 8458 20.9 33.4 27 | 19.0 | 33 | 8560 23.6 38.3 25 | | | | | |
| | 300 | 3. | 9708 31.9 65.5 03 | 4.6 | 28 | 9693 32.2 65.8 07 | 4.4 | 35 | 9704 31.9 65.5 27 | 1.5 | 38 | 9542 30.7 51.0 27 | 21.2 | 33 | 9660 31.9 65.5 25 | | | | | |
| | 250 | 3. | 10770 41.8 53.5 04 | 5.2 | 28 | 10693 42.4 54.2 07 | 4.4 | 35 | 10697 41.8 53.5 27 | 1.5 | 38 | 10572 41.8 53.5 27 | 23.3 | 33 | 10611 41.8 53.5 25 | | | | | |
| | 200 | 3. | 12446 52.7 68.8 03 | 6.2 | 28 | 12446 52.7 68.8 07 | 6.2 | 35 | 12446 52.7 68.8 27 | 1.5 | 38 | 12344 52.7 68.8 27 | 24.0 | 33 | 12391 52.7 68.8 25 | | | | | |
| | 175 | 3. | 13296 58.6 08 | 0.4 | 28 | 13270 59.8 08 | 6.1 | 35 | 13292 58.6 08 | 1.5 | 38 | 13198 58.6 08 | 23.4 | 33 | 13242 58.6 08 | | | | | |
| | 150 | 3. | 14248 65.0 04 | 1.5 | 28 | 14218 66.5 05 | 7.4 | 35 | 14242 65.0 04 | 1.5 | 38 | 14070 65.0 04 | 24.4 | 33 | 14200 65.0 04 | | | | | |
| | 125 | 3. | 15341 71.1 05 | 4.3 | 28 | 15305 72.5 05 | 8.1 | 35 | 15335 71.1 05 | 1.5 | 38 | 15205 71.1 05 | 24.1 | 33 | 15307 71.1 05 | | | | | |
| | 100 | 3. | 16655 77.6 07 | 4.8 | 28 | 16612 72.7 07 | 11.1 | 35 | 16658 77.6 07 | 1.5 | 38 | 16589 77.6 07 | 24.1 | 33 | 16644 77.6 07 | | | | | |
| | 75 | 3. | 17990 66.8 08 | 7.5 | 28 | 17939 67.0 08 | 13.3 | 35 | 18004 66.8 08 | 1.5 | 38 | 17980 66.8 08 | 24.1 | 33 | 18005 66.8 08 | | | | | |
| | 50 | 3. | 18803 03.7 07 | 9.1 | 28 | 18748 05.1 07 | 14.4 | 35 | 18825 03.7 07 | 1.5 | 38 | 18821 03.7 07 | 24.1 | 33 | 18821 03.7 07 | | | | | |
| | 25 | 3. | 19755 06.5 08 | 10.8 | 28 | 19695 06.4 08 | 15.9 | 35 | 19794 06.5 08 | 1.5 | 38 | 19799 06.5 08 | 24.1 | 33 | 19799 06.5 08 | | | | | |
| | 0 | 3. | 20894 58.6 05 | 12.8 | 28 | 20827 60.1 05 | 17.0 | 35 | 20932 58.6 05 | 1.5 | 38 | 20932 58.6 05 | 24.1 | 33 | 20932 58.6 05 | | | | | |
| | 0 | 3. | 22307 55.5 05 | 14.2 | 28 | 22228 57.3 05 | 19.8 | 35 | 22336 55.5 05 | 1.5 | 38 | 22336 55.5 05 | 24.1 | 33 | 22336 55.5 05 | | | | | |
| | 0 | 3. | 24317 82.6 05 | 17.5 | 28 | 24084 83.8 05 | 22.2 | 35 | 24317 82.6 05 | 1.5 | 38 | 24317 82.6 05 | 24.1 | 33 | 24317 82.6 05 | | | | | |
| | 25 | 3. | 25361 86.1 05 | 20.8 | 28 | 25281 87.1 05 | 25.2 | 35 | 25505 86.1 05 | 1.5 | 38 | 25505 86.1 05 | 24.1 | 33 | 25505 86.1 05 | | | | | |
| | 25 | 3. | 26804 86.1 05 | 24.8 | 28 | 26594 89.1 05 | 28.1 | 35 | 26872 86.1 05 | 1.5 | 38 | 26750 86.1 05 | 24.1 | 33 | 26750 86.1 05 | | | | | |
| | 5 | 3. | 28707 45.3 03 | 28.4 | 14 | 28609 46.0 03 | 28.7 | 35 | 28779 45.3 03 | 1.5 | 38 | 28777 45.3 03 | 24.1 | 33 | 28777 45.3 03 | | | | | |
| | 10 | 3. | 31447 44.2 02 | 29 | 21.1 | | 31.519 44.2 02 | 29.9 | 35 | 31.621 44.2 02 | 1.5 | 38 | 31.621 44.2 02 | 24.1 | 33 | 31.621 44.2 02 | | | | |

Average monthly values

[illegible]

Average monthly values

Average monthly values

[illegible]

| YAKUTAT, ALASKA
1012 MB | | | | | | | | | | YAP, CAROLINE IS.
1008 MB | | | | | | | | | | YUCCA FLAT, NEV.
881 MB | | | | | | | | | | YUMA, ARIZ.
993 MB | | | | | | | | | |
|----------------------------|----|--------|-------|-------|----|------|-----|--------|--------|------------------------------|----|------|------|--------|--------|-------|----|------|------|----------------------------|-------|-------|----|----|--|--|--|--|--|-----------------------|--|--|--|--|--|--|--|--|--|
| SURFACE | 31 | 12 | 9.5 | 7.9 | 12 | 1.7 | 31 | 14 | 28.3 | 24.4 | 20 | 1.0 | 31 | 1.198 | 18.7 | 8.2 | 25 | .2 | 22 | 131 | 30.3 | 18.5 | 12 | . | | | | | | | | | | | | | | | |
| 1000 | 31 | 112 | 9.8 | 7.4 | 13 | 2.4 | 31 | 83 | 26.9 | 20.9 | 20 | 1.2 | 31 | 92 | | | | .2 | 22 | 67 | | | | . | | | | | | | | | | | | | | | |
| 950 | 31 | 538 | 7.9 | 5.5 | 14 | 4.5 | 31 | 535 | 23.3 | 18.6 | 20 | 1.6 | 31 | 542 | | | | .2 | 22 | 520 | 28.6 | 16.1 | 16 | 1. | | | | | | | | | | | | | | | |
| 900 | 31 | 983 | 5.4 | 2.5 | 15 | 5.7 | 31 | 1,006 | 20.2 | 15.1 | 20 | 1.7 | 31 | 1,012 | | | | .5 | 22 | 1,001 | 26.2 | 13.2 | 18 | 1. | | | | | | | | | | | | | | | |
| 850 | 31 | 1,448 | 2.7 | -1.5 | 15 | 5.7 | 31 | 1,438 | 17.3 | 11.1 | 16 | 4.0 | 31 | 1,508 | 21.1 | 9.1 | 23 | 1.5 | 22 | 1,504 | 22.9 | 10.8 | 18 | 2. | | | | | | | | | | | | | | | |
| 800 | 31 | 1,936 | -1 | -2.5 | 15 | 4.8 | 31 | 2,014 | 15.1 | 8.3 | 14 | 2.4 | 31 | 2,036 | 21.1 | 6.4 | 21 | 5.8 | 22 | 2,029 | 19.1 | 8.4 | 16 | 1. | | | | | | | | | | | | | | | |
| 750 | 31 | 2,451 | -2.6 | -6.0 | 17 | 4.8 | 31 | 2,559 | 12.4 | 4.4 | 14 | 2.8 | 31 | 2,591 | 17.1 | 3.4 | 21 | 6.9 | 22 | 2,575 | 14.7 | 6.0 | 15 | 3. | | | | | | | | | | | | | | | |
| 700 | 31 | 2,997 | -4.6 | -9.2 | 20 | 4.8 | 31 | 3,135 | 9.2 | 1.1 | 14 | 3.2 | 31 | 3,175 | 12.4 | -2 | 19 | 5.9 | 22 | 3,160 | 10.2 | 2.7 | 14 | 4. | | | | | | | | | | | | | | | |
| 650 | 31 | 3,577 | -7.6 | -12.9 | 21 | 5.1 | 31 | 3,746 | 5.9 | -3.1 | 12 | 3.9 | 31 | 3,791 | 7.5 | -3.2 | 17 | 5.4 | 22 | 3,768 | 5.8 | -2.0 | 14 | 5. | | | | | | | | | | | | | | | |
| 600 | 31 | 4,196 | -10.9 | -18.3 | 22 | 5.1 | 31 | 4,398 | 2.3 | -6.6 | 13 | 4.0 | 31 | 4,444 | 2.5 | -8.1 | 15 | 5.4 | 22 | 4,423 | 1.5 | -8.3 | 14 | 5. | | | | | | | | | | | | | | | |
| 550 | 31 | 4,861 | -16.5 | -22.1 | 23 | 5.9 | 31 | 5,096 | -1.5 | -10.5 | 11 | 4.0 | 31 | 5,141 | -2.6 | -13.0 | 17 | 4.8 | 22 | 5,111 | -3.1 | -12.5 | 13 | 4. | | | | | | | | | | | | | | | |
| 500 | 31 | 5,576 | -19.2 | -28.1 | 23 | 7.1 | 31 | 5,850 | -5.7 | -16.7 | 12 | 4.5 | 31 | 5,890 | -7.7 | -18.9 | 20 | 5.9 | 22 | 5,867 | -6.7 | -16.9 | 15 | 2. | | | | | | | | | | | | | | | |
| 450 | 31 | 6,353 | -24.4 | -33.1 | 24 | 8.3 | 31 | 6,670 | -10.1 | -22.6 | 11 | 5.0 | 31 | 6,703 | -12.3 | -26.0 | 22 | 3.3 | 22 | 6,573 | -12.5 | -25.9 | 17 | 2. | | | | | | | | | | | | | | | |
| 400 | 31 | 7,200 | -30.5 | -38.4 | 24 | 8.6 | 31 | 7,568 | -15.8 | -29.0 | 09 | 4.5 | 31 | 7,594 | -18.3 | -31.7 | 24 | 3.9 | 22 | 7,571 | -18.0 | -29.7 | 18 | 3. | | | | | | | | | | | | | | | |
| 350 | 31 | 8,139 | -37.4 | -43.6 | 25 | 10.5 | 31 | 8,565 | -22.5 | -36.2 | 09 | 5.4 | 31 | 8,580 | -25.0 | -38.1 | 23 | 6.1 | 22 | 8,555 | -24.7 | -37.1 | 18 | 2. | | | | | | | | | | | | | | | |
| 300 | 31 | 9,185 | -44.4 | -45.2 | 25 | 11.5 | 31 | 9,675 | -30.8 | -44.8 | 09 | 7.0 | 31 | 9,680 | -32.9 | -45.5 | 22 | 9.7 | 21 | 9,661 | -32.8 | -44.9 | 20 | 3. | | | | | | | | | | | | | | | |
| 250 | 31 | 10,339 | -49.8 | | | 12.2 | 31 | 10,942 | -41.0 | -52.3 | 07 | 10.0 | 31 | 10,940 | -41.7 | | 22 | 13.1 | 21 | 10,918 | -42.5 | | 20 | 5. | | | | | | | | | | | | | | | |
| 200 | 31 | 11,652 | -52.8 | | | 12.5 | 31 | 12,281 | -48.1 | -60.8 | 06 | 11.5 | 31 | 12,278 | -48.4 | | 22 | 14.1 | 19 | 12,284 | -54.2 | | 20 | 5. | | | | | | | | | | | | | | | |
| 175 | 31 | 12,726 | -48.6 | | | 9.7 | 30 | 13,263 | -61.0 | | | 9.5 | 32 | 13,270 | -58.2 | | | 23 | 11.1 | | | | | | | | | | | | | | | | | | | | |
| 150 | 30 | 13,741 | -48.4 | | | 9.2 | 30 | 14,202 | -63.8 | | | 9.5 | 14.4 | 31 | 14,226 | -64.2 | | 23 | 10.9 | | | | | | | | | | | | | | | | | | | | |
| 125 | 30 | 14,939 | -49.4 | | | 7.8 | 30 | 15,272 | -76.7 | | | 9.6 | 14.4 | 31 | 15,331 | -68.2 | | 24 | 7.3 | | | | | | | | | | | | | | | | | | | | |
| 100 | 29 | 16,402 | -50.0 | | | 5.9 | 30 | 16,542 | -77.6 | | | 9.7 | 14.0 | 31 | 16,665 | -68.9 | | 20 | 2.4 | | | | | | | | | | | | | | | | | | | | |
| 80 | 29 | 17,862 | -49.6 | | | 4.4 | 30 | 17,842 | -71.5 | | | 9.8 | 15.4 | 31 | 18,014 | -64.5 | | 12 | 2.4 | | | | | | | | | | | | | | | | | | | | |
| 60 | 29 | 18,736 | -49.3 | | | 2.5 | 30 | 18,698 | -67.6 | | | 9.8 | 16.5 | 31 | 18,837 | -61.6 | | 09 | 4.2 | | | | | | | | | | | | | | | | | | | | |
| 40 | 29 | 19,746 | -49.3 | | | 2.4 | 29 | 20,572 | -65.3 | | | 9.9 | 17.8 | 31 | 19,799 | -58.9 | | 09 | 6.0 | | | | | | | | | | | | | | | | | | | | |
| 50 | 29 | 20,943 | -49.0 | | | 2.4 | 29 | 20,688 | -63.1 | | | 9.9 | 23.0 | 31 | 20,950 | -56.6 | | 09 | 7.0 | | | | | | | | | | | | | | | | | | | | |
| 20 | 29 | 22,408 | -48.9 | | | 2.6 | 4 | 22,069 | -60.7 | | | 9.9 | 29.2 | 30 | 22,375 | -54.4 | | 09 | 9.1 | | | | | | | | | | | | | | | | | | | | |
| 30 | 28 | 24,299 | -48.2 | | | 5.5 | 1.1 | 29 | 23,883 | -55.1 | | 9.9 | 35.7 | 30 | 24,231 | -51.4 | | 09 | 11.0 | | | | | | | | | | | | | | | | | | | | |
| 25 | 28 | 25,502 | -47.5 | | | 0.7 | 2.0 | 28 | 25,056 | -52.0 | | 9.9 | 36.3 | 29 | 25,420 | -49.5 | | 09 | 12.3 | | | | | | | | | | | | | | | | | | | | |
| 20 | 26 | 26,995 | -46.1 | | | 0.7 | 3.0 | 27 | 26,514 | -48.4 | | 9.9 | 37.0 | 27 | 26,888 | -47.5 | | 09 | 12.7 | | | | | | | | | | | | | | | | | | | | |
| 15 | 19 | 28,917 | -46.3 | 9 | | 5.4 | 18 | 28,417 | -45.9 | | | 9.9 | 30.4 | 27 | 28,795 | -45.8 | | 09 | 13.8 | | | | | | | | | | | | | | | | | | | | |
| 10 | 19 | 31,695 | -39.5 | | | | 18 | 31,144 | -44.1 | | | | 4.1 | 31 | 31,511 | -42.9 | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | 12 | 33,556 | -40.5 | | | | 6 | 33,939 | -40.2 | | | | | | | | | | | | | | | | | | | | | | | | |

The temperature and wind values are based on 15 or more observations at the surface or 5 observations at a standard pressure level for temperature and 10 for wind. Dew Point data are not published for standard pressure surfaces for which less than 5 observations are available. Dew Point data are computed and expressed on the basis of vapor pressure over water. Unless otherwise indicated, they are obtained from carbon hygristors.

⁴ Rawinsondes at this station were equipped with hypsometers to permit more accurate evaluations of pressure, and consequently height, at pressures lower than 50 mb. These rawinsondes were carried aloft by special high altitude balloons, in an effort to consistently reach higher altitudes.

+ Observations for these stations are scheduled at 0000 G.C.T.

† Dew Point temperatures are based on a minimum of 5 observations. Therefore, due to the lesser number of Dew Point observations at the surface and higher levels comparison with dry-bulb temperatures should be made with care. Dew Point temperatures replaced Relative Humidity January 1967.

SOLAR RADIATION INTENSITIES

Tabulated in langleys per minute on a surface normal to the direction of the sun.

| TUCSON, ARIZ. | | | | | | | | | |
|-----------------------|-------|-------|-------|-------|------|-------|-------|-------|-------|
| Sun's zenith distance | | | | | | | | | |
| Date | A M | | | | * | P M. | | | |
| | 78 7' | 75 7' | 70 7' | 60 0' | | 60 0' | 70 7' | 75 7' | 78 7' |
| Air mass | | | | | | | | | |
| | 4.56 | 3.65 | 2.74 | 1.83 | * | 1.83 | 2.74 | 3.65 | 4.56 |
| AUGUST | | | | | | | | | |
| 1----- | --- | --- | --- | 1.04 | --- | --- | --- | --- | --- |
| 2----- | --- | --- | --- | 1.05 | 0.88 | 0.69 | --- | --- | --- |
| 3----- | --- | --- | --- | 0.97 | 1.00 | --- | --- | --- | --- |
| 4----- | --- | --- | --- | 1.07 | .94 | .80 | --- | --- | --- |
| 5----- | 0.55 | 0.63 | 0.79 | .97 | 1.11 | --- | --- | --- | --- |
| 6----- | .60 | .69 | .82 | 1.22 | .97 | .85 | 0.71 | 0.57 | --- |
| 7----- | .55 | .64 | .77 | .92 | 1.09 | --- | --- | --- | --- |
| 8----- | --- | --- | --- | --- | .87 | .67 | .53 | .42 | --- |
| 9----- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 10----- | --- | .56 | .65 | --- | --- | --- | --- | --- | --- |
| 11----- | --- | --- | --- | --- | .88 | --- | --- | --- | --- |
| 12----- | --- | --- | --- | --- | 1.19 | .96 | --- | --- | --- |
| 13----- | .61 | .61 | .74 | .91 | 1.09 | --- | --- | --- | --- |
| 14----- | .62 | .53 | .66 | .84 | 1.09 | --- | --- | --- | --- |
| 15----- | .65 | .53 | --- | --- | 1.11 | --- | --- | --- | --- |
| 16----- | .57 | .66 | .79 | .94 | --- | --- | --- | --- | --- |
| 17----- | --- | --- | --- | --- | --- | 1.13 | .93 | .86 | .70 |
| 18----- | --- | --- | --- | 1.61 | 1.27 | 1.00 | --- | --- | --- |
| 19----- | --- | --- | --- | --- | --- | .90 | --- | --- | --- |
| 20----- | --- | --- | --- | --- | 1.30 | --- | --- | --- | --- |
| 21----- | --- | --- | --- | --- | --- | 1.05 | .90 | .77 | --- |
| 22----- | .71 | .84 | .94 | 1.10 | 1.30 | --- | --- | --- | --- |
| 23----- | .65 | .74 | .83 | 1.03 | 1.27 | --- | --- | --- | --- |
| 24----- | .65 | .74 | .88 | 1.10 | 1.41 | 1.16 | .98 | --- | --- |
| 25----- | .74 | .85 | .98 | 1.16 | 1.43 | 1.18 | 1.02 | .88 | .79 |
| 26----- | .68 | .80 | .92 | 1.10 | 1.33 | 1.03 | .88 | .73 | .61 |
| 27----- | .53 | .62 | .79 | .96 | 1.23 | .93 | .74 | .59 | .44 |
| AVER- | | | | | | | | | |
| AGES | 0.57 | 0.66 | 0.80 | 1.01 | 1.22 | .98 | .85 | .72 | .59 |

| MADISON, WIS. | | | | | | | | | |
|---------------|--------|--------|--------|--------|--------|--------|--------|-------|-------|
| Air mass | | | | | | | | | |
| | 4.69 | 3.75 | 2.81 | 1.88 | * | 1.88 | 2.81 | 3.75 | 4.69 |
| AUGUST | | | | | | | | | |
| 1----- | S 0.72 | S 0.91 | S 1.04 | S 1.18 | S 1.34 | | | | |
| 2----- | | | | | S 1.18 | | | | |
| 3----- | | | S 1.02 | S 1.21 | S 1.28 | | | | |
| 4----- | I .51 | I .62 | I .77 | M .91 | | M 0.53 | M 0.44 | | |
| 5----- | | | | | | I .44 | I .38 | | |
| 6----- | I .24 | I .30 | I .40 | I .57 | I .88 | I .56 | I .37 | I .27 | I .19 |
| 7----- | S .75 | S .84 | S .96 | S 1.12 | S 1.28 | S 1.06 | S .90 | S .78 | S .66 |
| 8----- | S .72 | S .85 | S .96 | S 1.12 | | | | | |
| 9----- | S .72 | S .84 | S .90 | | | | | | |
| 10----- | S .70 | S .91 | S .93 | S 1.09 | S 1.30 | | | | |
| 11----- | S .83 | S .93 | S 1.04 | S 1.18 | | | | | |
| 12----- | S .72 | S .82 | S .94 | S 1.09 | S 1.25 | S 1.06 | S .85 | S .70 | S .62 |
| 13----- | | | | | S 1.15 | | | | |
| 14----- | | | | | S 1.15 | | | | |
| 15----- | S .85 | S .95 | S 1.06 | | | S 1.00 | S .90 | S .82 | |
| 16----- | | | | | | | | | |
| 17----- | | | | | | | | | |
| 18----- | | | | | | | | | |
| 19----- | | | | | | | | | |
| 20----- | | | | | | | | | |
| 21----- | | | | | | | | | |
| 22----- | | | | | | | | | |
| 23----- | | | | | | | | | |
| 24----- | | | | | | | | | |
| 25----- | | | | | | | | | |
| 26----- | | | | | | | | | |
| 27----- | | | | | | | | | |
| 28----- | | | | | | | | | |
| 29----- | | | | | | | | | |
| 30----- | | | | | | | | | |
| 31----- | | | | | | | | | |
| AVER- | | | | | | | | | |
| AGES | 0.67 | 0.79 | 0.91 | 1.05 | 1.20 | 0.89 | .78 | .60 | .51 |

H HAZE
S SLIGHT HAZE - INDETERMINABLE
M MODERATE HAZE - INDETERMINABLE
I INTENSE HAZE - INDETERMINABLE
* VALUES CORRESPONDING TO TRUE SOLAR NOON

HS SLIGHT HAZE
HM MODERATE HAZE
HI INTENSE HAZE
() CLOUDS PRESENT

Langley is the unit used to denote one gram-calorie per square centimeter. An explanation of the formula used in computing the air mass values for each station listed above appears

| ALBUQUERQUE, N. M. | | | | | | | | | |
|-----------------------|----------------|-------|-------|----------------|--------|-------|-------|-------|-------|
| Sun's zenith distance | | | | | | | | | |
| Date | A M | | | | * | P M | | | |
| | 78.7° | 75.7° | 70.7° | 60.0° | | 60.0° | 70.7° | 75.7° | 78.7° |
| Air mass | | | | | | | | | |
| | 4.19 | 3.35 | 2.51 | 1.67 | * | 1.67 | 2.51 | 3.35 | 4.19 |
| AUGUST | | | | | | | | | |
| 1----- | | | | 1.14 | 1.07 | 1.12 | | | |
| 2----- | .76 | .87 | .99 | 1.14 | 1.07 | 1.12 | | | |
| 3----- | .74 | .83 | .94 | 1.11 | | | | | |
| 4----- | .74 | .83 | .94 | | | | | | |
| 5----- | | | | 1.11 | | | | | |
| 6----- | .72 | .80 | .92 | 1.07 | 1.01 | 1.07 | .94 | .80 | .72 |
| 7----- | | | | 1.07 | | | | | |
| 8----- | .69 | .77 | .88 | 1.04 | 1.04 | 1.04 | | | |
| 9----- | .68 | .77 | .87 | 1.03 | 1.03 | 1.03 | | | |
| 10----- | .67 | .77 | .86 | 1.02 | 1.02 | 1.02 | | | |
| 11----- | .67 | .77 | .86 | 1.02 | 1.02 | 1.02 | | | |
| 12----- | .67 | .77 | .86 | 1.02 | 1.02 | 1.02 | | | |
| 13----- | .67 | .77 | .86 | 1.02 | 1.02 | 1.02 | | | |
| 14----- | .67 | .77 | .86 | 1.02 | 1.02 | 1.02 | | | |
| 15----- | .67 | .77 | .86 | 1.02 | 1.02 | 1.02 | | | |
| 16----- | .67 | .77 | .86 | 1.02 | 1.02 | 1.02 | | | |
| 17----- | .67 | .77 | .86 | 1.02 | 1.02 | 1.02 | | | |
| 18----- | | | 0.65 | 0.71 | | | | | |
| 19----- | H (.42)H (.52) | | | H (.42)H (.52) | (1.14) | | | | |
| 20----- | .63 | .73 | .83 | 1.01 | 1.01 | 1.01 | .96 | .83 | .74 |
| 21----- | .72 | .78 | .84 | 1.08 | 1.08 | 1.08 | 1.03 | .96 | .84 |
| 22----- | .76 | .84 | .94 | 1.11 | 1.11 | 1.11 | 1.06 | .96 | .84 |
| 23----- | .81 | .91 | 1.02 | 1.14 | 1.14 | 1.14 | 1.09 | .96 | .84 |
| 24----- | .78 | .87 | 1.00 | 1.11 | 1.11 | 1.11 | 1.06 | .96 | .84 |
| 25----- | .69 | .76 | 1.00 | 1.06 | 1.06 | 1.06 | .97 | | |
| 26----- | .75 | .87 | .99 | 1.14 | 1.14 | 1.14 | | | |
| 27----- | .76 | .87 | .99 | 1.14 | 1.14 | 1.14 | .93 | .81 | .74 |
| 28----- | .77 | .88 | .97 | 1.14 | 1.14 | 1.14 | .93 | .81 | .74 |
| 29----- | .80 | .89 | 1.01 | 1.11 | 1.11 | 1.11 | .92 | .80 | .74 |
| 30----- | .75 | .82 | .94 | 1.11 | 1.11 | 1.11 | | | |
| 31----- | | | | | | | | | |
| AVER- | | | | | | | | | |
| AGES | .72 | 0.83 | 0.95 | 1.10 | 1.33 | 1.11 | .96 | .83 | .74 |

| OMAHA, NEB. | | | | | | | | | |
|-------------|---------|---------|---------|---------|---------|---------|--------|--------|--------|
| Air mass | | | | | | | | | |
| | 4.78 | 3.62 | 2.87 | 1.91 | * | 1.91 | 2.87 | 3.62 | 4.78 |
| AUGUST | | | | | | | | | |
| 1----- | HS 0.77 | HS 0.88 | HS 0.98 | HS 1.13 | HS 1.26 | HS 1.00 | | | |
| 2----- | HS .72 | HS .81 | HS .92 | HS 1.01 | HS 1.23 | | | | |
| 3----- | | HI .33 | HM .43 | HM .53 | HM .88 | HM .80 | | | |
| 4----- | HM .30 | HM .42 | HM .56 | HM .72 | HM 1.13 | HM .84 | HM .64 | HM .41 | HM .31 |
| 5----- | | | HS .85 | HS .94 | HM 1.08 | HM .84 | HM .62 | | |
| 6----- | HM .48 | HM .51 | | | | | | | |
| 7----- | | | | | | 1.08 | .88 | .85 | .70 |
| 8----- | | | | | | .97 | .82 | .80 | .66 |
| 9----- | | | | | | | | | |
| 10----- | HS .80 | HS .91 | HS 1.04 | HS 1.21 | HS 1.32 | | 1.01 | .86 | .74 |
| 11----- | HS .70 | HS .84 | HS 1.01 | HS 1.16 | HS 1.32 | 1.04 | .97 | .86 | .74 |
| 12----- | | | | | | 1.11 | .97 | .86 | .74 |
| 13----- | | | | | | | .94 | .85 | .74 |
| 14----- | HM .53 | HM .62 | HM .77 | HS .97 | HS 1.17 | HS .94 | HS .74 | .65 | .54 |
| 15----- | | | | | | 1.03 | | | |
| 16----- | | | | | | | .87 | .77 | .67 |
| 17----- | | | | | | | | | |
| 18----- | | | | | | | | | |
| 19----- | | | | | | | | | |
| 20----- | | | | | | | | | |
| 21----- | | | | | | | | | |
| 22----- | | | | | | | | | |
| 23----- | | | | | | | | | |
| 24----- | | | | | | | | | |
| 25----- | | | | | | | | | |
| 26----- | | | | | | | | | |
| 27----- | | | | | | | | | |
| 28----- | | | | | | | | | |
| 29----- | | | | | | | | | |
| 30----- | | | | | | | | | |
| 31----- | | | | | | | | | |
| AVER- | | | | | | | | | |
| AGES | 0.61 | 0.67 | 0.77 | 0.94 | 1.18 | .92 | .82 | .69 | .59 |

in the February 1937 issue, Vol. 8, No. 2, page 64 of this publication.

SOLAR RADIATION TOTALS

Daily totals and monthly averages of solar radiation (direct and diffuse) received on a horizontal surface, tabulated in langleys.

| Station | Day of month | | | | | | | | | | | | Avg | | | | | | | | | | | | | | | | | | | | |
|----------------------|--------------|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | |
| ALBUQUERQUE N.M. | 406 | 766 | 565 | 598 | 438 | 598 | 728 | 649 | 549 | 627 | 728 | 679 | 705 | 665 | 524 | 574 | 522 | 607 | 672 | 688 | 557 | 620 | 653 | 664 | 671 | 680 | 683 | 482 | 648 | 560 | 556 | 621 | |
| AMEC IOWA | 559 | 593 | 513 | --- | --- | 119 | --- | --- | 284 | 450 | 444 | 493 | 509 | 527 | 321 | 533 | 165 | 414 | 491 | 513 | 416 | 434 | 549 | 520 | 501 | 501 | 460 | 428 | 434 | 404 | 443 | | |
| ANNETTE ALASKA | 619 | 265 | --- | 318 | 306 | 223 | 325 | 354 | 107 | 126 | 80 | 128 | 316 | 70 | 284 | 248 | 581 | 366 | 189 | 451 | 213 | 554 | 551 | 544 | 544 | 544 | 132 | 423 | 76 | 462 | 342 | 317 | |
| APALACHICOLA FLORIDA | 652 | 667 | 623 | 639 | 372 | 237 | 318 | 238 | 276 | 133 | 115 | 160 | 215 | 341 | 331 | 606 | 613 | 547 | 307 | 152 | 302 | 164 | 260 | 312 | 307 | 152 | 302 | 344 | 463 | 424 | 600 | 606 | 601 |
| ARGONNE NAT. LAB. | 673 | 623 | 577 | 354 | 493 | 578 | 505 | 167 | 535 | 446 | 559 | 400 | 536 | 422 | 510 | 578 | 575 | 284 | 229 | 567 | 523 | 207 | 514 | 595 | 558 | 558 | 497 | 459 | 470 | 502 | 488 | 483 | |
| ASTORIA OREGON | 341 | 237 | 570 | 377 | 560 | 483 | 484 | 503 | 669 | 683 | 660 | 294 | 526 | 661 | 652 | 566 | 652 | 643 | 384 | 230 | 487 | 253 | 380 | 305 | 288 | 513 | 513 | 286 | 599 | 476 | 281 | 463 | |
| ATLANTA GEORGIA | 473 | 580 | 597 | 593 | 616 | 496 | 335 | 543 | 303 | 200 | 130 | 212 | 405 | 495 | 530 | 422 | 525 | 497 | 370 | 570 | 499 | 424 | 393 | 484 | 314 | 342 | 433 | 434 | 504 | 508 | 600 | 440 | |
| BARROW ALASKA | 253 | --- | 253 | --- | --- | --- | --- | 178 | 375 | 251 | 188 | 355 | 384 | 195 | 199 | 202 | 178 | 244 | 242 | 145 | 231 | 271 | 359 | 308 | 171 | 93 | 97 | 129 | 247 | 213 | 157 | 275 | 229 |
| BETH EL ALASKA | 133 | 299 | 478 | 250 | 306 | 118 | 215 | 310 | 543 | 402 | 220 | 104 | 412 | 512 | 149 | 201 | 140 | 286 | 166 | 217 | 338 | 155 | 194 | 187 | 245 | 443 | 58 | 154 | 213 | 217 | 216 | 252 | |
| BISMARCK N.DAK. | 716 | 509 | 468 | 704 | 661 | 639 | 537 | 680* | 705 | 702 | 679 | 670 | 550 | 295 | --- | 693 | 628 | 588 | 690 | 658 | 619 | 651 | 625 | 338 | 629 | 636 | 517 | 448 | 582 | 600 | 549 | 594* | |
| BOISE IDAHO | 716 | 730 | 718 | 566 | 575 | 673 | 702 | 713 | 710 | 704 | 633 | 670 | 680 | 689 | 686 | 658 | 669 | 674 | 589 | 586 | 644 | 640 | 580 | 604 | 570 | 581 | 591 | 609 | 599 | 550 | 534 | 641 | |
| BROOKINGS SOUTH DAK. | 332 | 372 | 579 | 537 | 412 | 132 | 106 | 150 | 196 | 375 | 529 | 511 | 563 | 551 | 522 | 546 | 434 | 374 | 564 | 573 | 514 | 451 | 501 | 506 | 509 | 513 | 180 | 475 | 478 | 488 | 431 | | |
| BROWNSVILLE TEXAS | 724 | 703 | 418 | 686 | 668 | 649 | 727 | 704 | 720 | --- | 673 | 682 | 518 | 250 | 670 | 703 | 703 | 728 | 713 | 670 | 680 | 481 | 654 | 608 | 446 | 500 | 378 | --- | 594 | 549 | 648 | 391 | 621 |
| BURLINGTON VERMONT | 307 | 555 | 286 | 511 | 550 | 681 | 676 | 668 | 647 | 639 | 426 | 490 | 445 | 580 | 549 | 490 | 537 | 678 | 605 | 440 | 580 | 481 | 44 | 608 | 446 | 500 | 542 | 132 | 545 | 300 | 449 | 496 | |
| CAPE HATTERAS N.C. | 497 | 620 | 648 | 583 | 639 | 368 | 550 | 547 | 434 | 166 | 363 | 349 | 498 | 297 | 291 | 273 | 136 | 198 | 551 | 488 | 458 | 591 | 548 | 302 | 109 | 232 | 426 | 461 | 555 | 553 | 548 | 425 | |
| CARIBOU MAINE | 191 | 316 | 404 | 609 | 662 | 637 | 663 | 642 | 652 | 550 | 577 | 209 | 561 | 578 | 533 | 640 | 595 | 564 | 157 | 630 | 607 | 139 | 435 | 530 | 578 | 550 | 479 | 441 | 122 | 466 | 601 | 519 | |
| CHARLESTON S.C. | 604 | 578 | 634 | 650 | 654 | 182 | 481 | 270 | 299 | 257 | 110 | 272 | 359 | 556 | 633 | 508 | 628 | 644 | 461 | 582 | 431 | 580 | 209 | 253 | 65 | 229 | 722 | 538 | 576 | 325 | 553 | 446 | |
| CLEVELAND OHIO | 564 | 620 | 296 | 633 | 527 | 615 | 584 | 507 | 411 | 536 | 480 | 603 | 527 | 485 | 445 | 437 | 618 | 528 | 598 | 478 | 607 | 352 | 442 | 597 | 563 | 514 | 558 | 507 | 367 | 438 | 501 | 505 | |
| COLUMBIA MISSOURI | 589 | 519 | 487 | 457 | 262 | 113 | 189 | 289 | 178 | 550 | 326 | 576 | 606 | 600 | 534 | 193 | 281 | 565 | 610 | 283 | 534 | 433 | 639 | 635 | 607 | 512 | 582 | 598 | 595 | 529 | 424 | 463 | |
| DODGE CITY KANSAS | 616 | 679 | 605 | 648 | 678 | 682 | 674 | 549 | 131 | 511 | 599 | 648 | 575 | 665 | 569 | 312 | 654 | 583 | 636 | 170 | 287 | 592 | 641 | 634 | 631 | 638 | 623 | 615 | 426 | 554 | 481 | 545 | |
| E. LANSING MICHIGAN | 689 | 711 | 616 | 544 | 544 | 646 | 541 | 612 | 541 | 549 | 551 | 446 | 504 | 541 | 533 | 640 | 595 | 564 | 157 | 630 | 607 | 139 | 435 | 530 | 578 | 550 | 479 | 441 | 122 | 466 | 601 | 519 | |
| EL CENTRO CALIF. NPF | 606 | 613 | 506 | 521 | 630 | 624 | 572 | 613 | 625 | 607 | 404 | 556 | 602 | 555 | 596 | 603 | 589 | 602 | 599 | 603 | 589 | 602 | 599 | 428 | 505 | 260 | 555 | 524 | 538 | 576 | 553 | 571 | 554 |
| EL PASO TEXAS | 654 | 623 | 671 | 513 | 158 | 681 | 687 | 629 | 655 | 519 | 417 | 662 | 654 | 642 | 600 | 629 | 614 | 591 | 631 | 648 | 634 | 651 | 619 | 647 | 643 | 632 | 646 | 647 | 644 | 613 | 441 | 603 | |
| ELY NEVADA | 721 | 680 | 631 | 225 | 581 | 625 | 699 | 706 | 703 | 609 | 624 | 622 | 578 | 451 | 513 | 491 | 421 | 462 | 492 | 438 | 424 | 581 | 68 | 574 | 560 | 482 | 466 | 432 | 426 | 554 | 481 | 545 | |
| EMPLOY NEWPORT P.I. | 266 | 559 | 634 | 576 | 399 | 571 | 559 | 555 | 591 | 551 | 84 | 522 | 578 | 451 | 513 | 491 | 421 | 462 | 492 | 438 | 424 | 581 | 68 | 574 | 560 | 482 | 466 | 432 | 426 | 554 | 481 | 545 | |
| FAIRBANKS ALASKA | 385 | 441 | 328 | 222 | 143 | 408 | 257 | 428 | 438 | 471 | 328 | 361 | 513 | 405 | 332 | 360 | 456 | 317 | 390 | 262 | 257 | 250 | 252 | 131 | 236 | 362 | 434 | 256 | 172 | 247 | 120 | 321 | |
| FLAMING GORGE UTAH | 552 | 553 | 118 | 647 | 627 | 284 | 529 | 542 | 717 | 727 | 726 | 572 | 597 | 483 | 601 | 349 | 511 | 195 | 553 | 508 | 616 | 615 | 665 | 478 | 615 | 638 | 218 | 344 | 321 | 342 | 519 | 460 | 501 |
| FORT WORTH TEXAS | 614 | 637 | 649 | 552 | 678 | 586 | 659 | 660 | 655 | 535 | 542 | 523 | 572 | 609 | 547 | 460 | 622 | 658 | 397 | 546 | 517 | 256 | 468 | 514 | 638 | 467 | 302 | 511 | 477 | 714 | 624 | 625 | 454 |
| FRESNO CALIFORNIA | 731 | 689 | 698 | 672 | 702 | 693 | 695 | 700 | 702 | 686 | 653 | 650 | 684 | 678 | 647 | 629 | 628 | 625 | 632 | 645 | 631 | 623 | 650 | 630 | 633 | 624 | 554 | 598 | 613 | 625 | 618 | 652 | |
| GAINESVILLE FLORIDA | 680 | 559 | 622 | 648 | 437 | 548 | 415 | 449 | 280 | 212 | 250 | 176 | 144 | 417 | 406 | 490 | 335 | 370 | 295 | 351 | 389 | 595 | 417 | 321 | 244 | 577 | 422 | 359 | 634 | 668 | 675 | 449 | |
| GENEVA NEW YORK | 321 | 555 | 410 | 519 | 478 | 440 | 548 | 534 | 522 | 435 | 486 | 511 | 419 | 377 | 439 | 352 | 410 | 507 | 189 | 377 | 514 | 299 | 194 | 400 | 478 | 463 | 463 | 236 | 362 | 98 | 430 | 412 | |
| GLASGOW MONTANA | 689 | 558 | 281 | 672 | 640 | 410 | 644 | 511 | 630 | 655 | 646 | 634 | 601 | 463 | 638 | 624 | 584 | 626 | 621 | 569 | 599 | 585 | 572 | 560 | 551 | 491 | 554 | 421 | 536 | 502 | 522 | 567 | |
| GREAT FALLS MONTANA | 732 | --- | 686 | 714 | 285 | 610 | 663 | 364 | 705 | 695 | 689 | 646 | 657 | 667 | 671 | 664 | 662 | 447 | 656 | 642 | 627 | 626 | 600 | 401 | 553 | 601 | 577 | 565 | 499 | 589 | 449 | 600 | |
| GREENSBORO N.C. | 539 | 494 | 497 | 589 | 329 | 472 | 285 | 171 | 89 | 34 | 619 | 198 | 240 | 425 | 413 | 432 | 403 | 439 | 413 | 439 | 413 | 446 | 100 | 194 | 447 | 431 | 451 | 446 | 476 | 425 | 391 | 374 | |
| INDIANAPOLIS INDIANA | 561 | 454 | 294 | 417 | 247 | 567 | 546 | 173 | 435 | --- | --- | 377 | 451 | 480 | 526 | 410 | 577 | 462 | 323 | 288 | 592 | 285 | 515 | 516 | 544 | 521 | 526 | 520 | 491 | 480 | 480 | 450 | |
| LAKE CHARLES LA. | 574 | 641 | 491 | 546 | 584 | 561 | 540 | 360 | 477 | 620 | 495 | 539 | 475 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | |
| LAKELAND FLORIDA | --- | 623 | 611 | 597 | 387 | 477 | 422 | 352 | 326 | 221 | 276 | 213 | 284 | 570 | 550 | 417 | 522 | 573 | 603 | 385 | 363 | 393 | 396 | 348 | 467 | 302 | 511 | 477 | 714 | 624 | 625 | 454 | |
| LARANDIE WYOMING | 682 | 613 | 652 | 539 | 630 | 466 | 587 | 590 | 643 | 657 | 655 | | | | | | | | | | | | | | | | | | | | | | |

SOLAR RADIATION TOTALS

Daily totals and monthly averages of solar radiation (direct and diffuse) received on a horizontal surface, tabulated in langleyes.

AUGUST 1970

| Station | Day of month | | | | | | | | | | | | Avg. | | | | | | | | | | | | | | | | | | | |
|-----------------------|--------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | |
| PAGE ARIZONA | 660 | 632 | 559 | 554 | 509 | 617 | 611 | 654 | 578 | 725 | 367 | 491 | --- | 412 | 649 | 651 | 583 | 553 | 559 | 474 | 639 | 655 | 658 | 661 | 540 | 490 | 533 | 628 | 627 | 540 | 466 | 576 |
| PALMER ALES ALASKA | 201 | 174 | 419 | 246 | 171 | 273 | 244 | 365 | 426 | 411 | 362 | 343 | 127 | 280 | 157 | 186 | 277 | 426 | 371 | 103 | 137 | 145 | 93 | 454 | 421 | 432 | 402 | 140 | 116 | 196 | 380 | 273 |
| PHOENIX ARIZONA | 623 | 473 | 588 | 563 | 601 | 518 | 616 | 613 | 509 | 605 | --- | 498 | 603 | 614 | 359 | 454 | 592 | 600 | 525 | 607 | 609 | 596 | 295 | 502 | 549 | 514 | 574 | 572 | 591 | 582 | 564 | 550 |
| PORTLAND MAINE | 83 | 600 | 489 | 569 | 540 | 607 | 539 | 543 | 593 | 563 | 253 | 346 | 584 | 565 | 543 | 520 | 413 | 607 | 586 | 192 | 420 | 505 | 46 | 540 | 450 | 544 | --- | --- | --- | --- | --- | 471 |
| PROSSER WASHINGTON | 391 | 606 | 662 | 656 | 631 | 610 | 608 | 618 | 634 | 624 | 610 | 613 | 627 | 606 | 616 | 607 | 611 | 604 | 500 | 586 | 586 | 562 | 513 | 558 | 555 | 570 | 543 | 551 | 539 | 464 | 488 | 579 |
| RAPID CITY S.DAK. | 630 | 367 | 446 | 531 | 382 | 327 | 587 | 614 | 605 | 613 | 396 | 603 | 604 | 556 | 603 | 597 | 556 | 596 | 596 | 579 | 532 | 570 | 568 | 494 | 551 | 297 | 518 | 416 | 531 | 554 | 552 | 528 |
| RENO NEVADA | 653 | 638 | 603 | 608 | 625 | 626 | 632 | 624 | 614 | 605 | 597 | 595 | 613 | 612 | 581 | 582 | 557 | 532 | 583 | 534 | 557 | 560 | 590 | 587 | 562 | 570 | 444 | 526 | 526 | 557 | 568 | 580 |
| RICHLAND 25 NW WASH. | 262 | 569 | 655 | 634 | 645 | 633 | 640 | 663 | 650 | 640 | 630 | 632 | 606 | 611 | 620 | 611 | 614 | 607 | 580 | 592 | 587 | 568 | 551 | 560 | 584 | 517 | 571 | 575 | 577 | 483 | 526 | 587 |
| RIVERSIDE CALIFORNIA | 741 | 714 | 712 | 533 | 691 | 693 | 707 | 730 | 732 | 692 | 609 | 605 | 643 | 660 | 642 | 607 | 631 | 640 | 633 | 612 | 672 | 653 | 641 | 468 | 614 | 638 | 633 | 583 | 621 | 633 | 667 | 641 |
| SAINT CLOUD MINN. | 588 | 402 | 565 | 584 | 545 | 541 | 52 | 269 | 537 | 484 | 495* | 434 | 585 | 513 | 593 | 601 | 576 | 160 | 573 | 618 | 519 | 552 | 612 | 552 | 474 | 568 | 571 | 254 | 158 | 314 | 573 | 480 |
| SALT LAKE CITY | 631 | 659 | 619 | 336 | 559 | 670 | 331 | 716 | 734 | 725 | 698 | 674 | 677 | 683 | 703 | 682 | 548 | 648 | 341 | 616 | 679 | 675 | 665 | 612 | 461 | 582 | 290 | 493 | 564 | 612 | 396 | 590 |
| SAN ANTONIO TEXAS | 618 | 663 | 309 | 316 | 624 | 607 | 665 | 602 | 656 | 666 | 365 | 550 | 562 | 627 | 343 | 642 | 613 | 636 | 615 | 503 | 613 | 498 | 417 | 490 | 627 | 624 | 635 | 567 | 521 | 575 | 500 | 556 |
| SANTA MARIA CALIF. | 661 | 722 | 625 | 568 | 681 | 711 | 723 | 718 | 715 | 674 | 644 | 642 | 633 | 664 | 587 | 622 | 637 | 614 | 572 | 570 | 566 | 537 | 612 | 653 | 640 | 596 | 591 | 550 | 592 | 478 | 564 | 628 |
| SAULT STE MARIE MICH. | 648 | 401 | 647 | --- | 635 | 632 | 558 | 580 | 630 | 602 | 424 | 524 | 536 | 492 | 384 | 496 | 629 | 526 | 202 | 621 | 614 | 145 | 266 | 556 | 454 | 569 | 141 | 485 | 512 | 123 | 585 | 487 |
| SEATTLE TACOMA WASH. | 219 | 210 | 512 | 483 | 653 | 493 | 410 | 432 | 650 | 651 | 632 | 595 | 417 | 643 | 615 | 253 | 454 | 609 | 601 | 397 | 541 | 555 | 524 | 175 | 223 | 556 | --- | --- | 501 | 508 | 240 | 473 |
| SPOKANE WASHINGTON | 607 | 423 | 662 | 655 | 584 | 630 | 638 | 648 | 658 | 647 | 629 | 633 | 617 | 641 | 632 | 626 | 631 | 625 | 616 | 594 | 588 | 582 | 565 | 480 | 568 | 565 | 526 | 495 | 556 | 468 | 487 | 590 |
| STERLING VIRGINIA | 503 | 629 | 511 | 647 | 447 | 439 | 481 | 453 | 371 | 282 | 489 | 567 | 542 | 423 | 552 | 496 | 494 | 460 | 307 | 380 | 541 | 382 | 152 | 454 | 492 | 468 | 517 | 501 | 493 | 453 | 439 | 463 |
| TAMPA FLORIDA | 647 | 635 | 494 | 593 | 455 | 435 | 376 | 168 | 175 | 145 | 241 | 305 | 333 | 575 | 533 | 329 | 362 | 395 | 465 | 252 | 325 | 575 | 350 | 348 | 483 | 488 | 346 | 422 | 562 | 569 | 609 | 419 |
| TUCSON ARIZONA | 600 | 584 | 582 | 601 | 507 | 526 | 501 | 468 | 333 | 569 | 525 | 527 | 588 | 592 | 494 | 548 | 516 | 370 | 501 | 523 | 599 | 600 | 462 | 533 | 487 | 489 | 525 | 598 | 618 | 586 | 573 | 536 |
| WAKE ISLAND PACIFIC | 657 | 634 | 510 | 574 | 491 | 506 | 580 | 402 | 457 | 479 | 557 | 526 | 426 | 507 | 627 | 187 | 491 | 566 | 409 | 469 | 624 | 629 | 649 | 504 | 458 | 563 | 542 | 611 | 499 | 621 | 595 | 527 |

Note.--Langley is the unit used to denote one gram calorie per square centimeter.

Values with an asterisk are interpolated.

The solar radiation data in this table form the basis for the analyses in charts VII, A, and B, of this publication. The analyses include adjustments required to bring station records to approximately the same level of calibration.

NET RADIATION

Net radiation in langbeys per day (8 a.m. to 4 p.m.) at Palmer, Alaska.

| Date, | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | Avg. |
|-----------------|----|----|-----|-----|----|-----|-----|-----|-----|-----|-----|-----|----|-----|----|----|-----|-----|-----|----|----|----|----|-----|-----|-----|-----|----|----|-----|-----|------|
| Langley's, . . | 93 | 80 | 104 | 127 | 62 | 151 | 102 | 184 | 211 | 215 | 175 | 125 | 37 | 153 | 64 | 63 | 115 | 108 | 148 | 33 | 58 | 80 | 23 | 171 | 157 | 124 | 170 | 57 | 60 | 143 | 117 | |

The measurement is made with a CSIRO PUNK net exchange radiometer over a plane. The value represents the total incoming minus the total outgoing radiation of all wave lengths.

These data are of an experimental nature and are published as received from the Palmer Exp. Station. The instrument with which they were measured has not been checked by the NOAA, National Weather Service.

SOLAR ULTRA-VIOLET RADIATION DATA

Daily totals and monthly average (2900 Å) at Ames, Iowa

| Date | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | Avg. |
|----------|-------|-------|-------|------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| Langbeys | 18.11 | 17.99 | 16.48 | 5.31 | 3.67 | 5.09 | 3.55 | 2.84 | 0.84 | 13.37 | 13.02 | 14.68 | 17.40 | 18.23 | 12.43 | 18.94 | 7.57 | 13.85 | 17.04 | 17.52 | 14.68 | 14.91 | 18.82 | 17.04 | 17.06 | 16.11 | 15.11 | 14.56 | 13.97 | 14.80 | 13.44 | 13.4 |

These data are from an U-V Pyrex total ultra violet sensor and Spectromax H (Leeds Northrup) Recorder. It is at the same location (Astronomy Building, Iowa State University, Ames) as the published total solar radiation insolation data. This instrument has not been checked by the NOAA, National Weather Service.

TOTAL OZONE DATA

These provisional ozone data are obtained from measurements made with a Dobson ozone spectrophotometer, and are applicable approximately to local apparent noon. The data are presented in the code 4 S W D Z defined in the August 1962 WMO Circular entitled PUBLICATION OF DATA FOR METEOROLOGICAL RESEARCH, WORLD OZONE DATA.

Units Milli-atmo-cms.

| Station | Day of month | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Mean O ₃ | | | |
|---------|--------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------------------|-------|-----|-----|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | | | | |
| --- | --- | --- | --- | 00343 | 00351 | 00359 | 00346 | --- | --- | 00346 | 06399 | 00311 | 00317 | 00336 | --- | --- | 05352 | 00344 | 00334 | 05350 | 00333 | --- | --- | --- | 00335 | 00349 | 00344 | 00339 | --- | --- | --- | 00333 | 341 | | |
| 00317 | 00306 | 00300 | 00331 | 00313 | 00316 | 00316 | 00313 | 00304 | 00310 | 00310 | 00310 | 00313 | 00315 | 00344 | 00303 | 00314 | 00300 | 00307 | 00305 | 00330 | 00319 | 00317 | 00319 | 00317 | 00318 | 00318 | 00319 | 00319 | 00319 | 00319 | 00319 | 00319 | 317 | | |
| --- | --- | 00317 | 00316 | 00317 | 00317 | 00317 | 00317 | --- | --- | 00314 | 00314 | 00314 | 00314 | 00314 | --- | --- | 00328 | --- | --- | 00317 | 00318 | --- | --- | --- | --- | 00317 | 00317 | 00317 | 00317 | 00317 | 00317 | 00317 | 00317 | 315 | |
| --- | 00364 | 00381 | 00392 | 00366 | 00366 | 00356 | 00346 | 00345 | 00330 | 00325 | 0031 | --- | 00328 | 0030 | --- | 00334 | 00333 | 00334 | 00330 | --- | 00317 | 00319 | 00317 | 00319 | 00318 | 00318 | 00319 | 00319 | 00319 | 00319 | 00319 | 00319 | 314 | | |
| 00317 | 00346 | 00367 | 00367 | --- | --- | 00353 | 00353 | 00353 | 00353 | 00353 | 00353 | 00353 | 00353 | 00353 | 00353 | 00353 | 00353 | 00353 | 00353 | 00353 | 00353 | 00353 | 00353 | 00353 | 00353 | 00353 | 00353 | 00353 | 00353 | 00353 | 00353 | 00353 | 349 | | |
| 00343 | 00334 | 00339 | --- | --- | --- | 00334 | 00337 | 00339 | 00341 | 00337 | 00351 | 00344 | 00339 | 00338 | 00335 | 00344 | 00319 | 00330 | 00330 | 00334 | 00335 | 00339 | 00334 | 00332 | 00349 | 00340 | 00343 | 00343 | 00343 | 00343 | 00343 | 00343 | 345 | | |
| 00269 | 00279 | 00284 | 00276 | 00272 | 00272 | 00269 | 00274 | 00270 | 00276 | 00277 | 00276 | 00269 | 00273 | 00274 | 00278 | 00270 | 00270 | 00271 | 00270 | 00267 | 00267 | 00269 | 00269 | 00269 | 00269 | 00269 | 00269 | 00269 | 00269 | 00269 | 00269 | 00269 | 00269 | 71 | |
| --- | --- | 00311 | --- | 00311 | --- | 00311 | --- | --- | --- | 00311 | --- | --- | --- | --- | --- | --- | 00311 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 263 |
| 00311 | 00354 | 00378 | 00376 | 00353 | 00343 | 00343 | 00344 | 00344 | 00344 | 00344 | 00344 | 00344 | 00344 | 00344 | 00344 | 00344 | 00344 | 00344 | 00344 | 00344 | 00344 | 00344 | 00344 | 00344 | 00344 | 00344 | 00344 | 00344 | 00344 | 00344 | 00344 | 00344 | 254 | | |
| --- | --- | --- | 00319 | --- | 00338 | --- | --- | --- | --- | --- | --- | --- | --- | 00311 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 300 |

The spectrophotometer measures the total amount of ozone in the atmosphere, i.e., the amount contained in a vertical column of air extending from ground level to the top of the atmosphere in the vicinity of the station. The amount of ozone in this column (coded 4 S W D Z) is expressed in terms of a thickness of a layer it would occupy at standard temperature and pressure, e.g., 350 milli-atmo-cm. ozone implies an ozone layer 0.350 centimeter thick. The code 4 S designates the type of measurement made.

Chart 1. A. Normal Daily Average Temperature ($^{\circ}\text{F}$. 1931-60), August.



B. Temperature Departure from 30 - Year Mean ($^{\circ}\text{F}$ 1931-60), August 1970.



Chart II. Total Precipitation (Inches), August 1970.

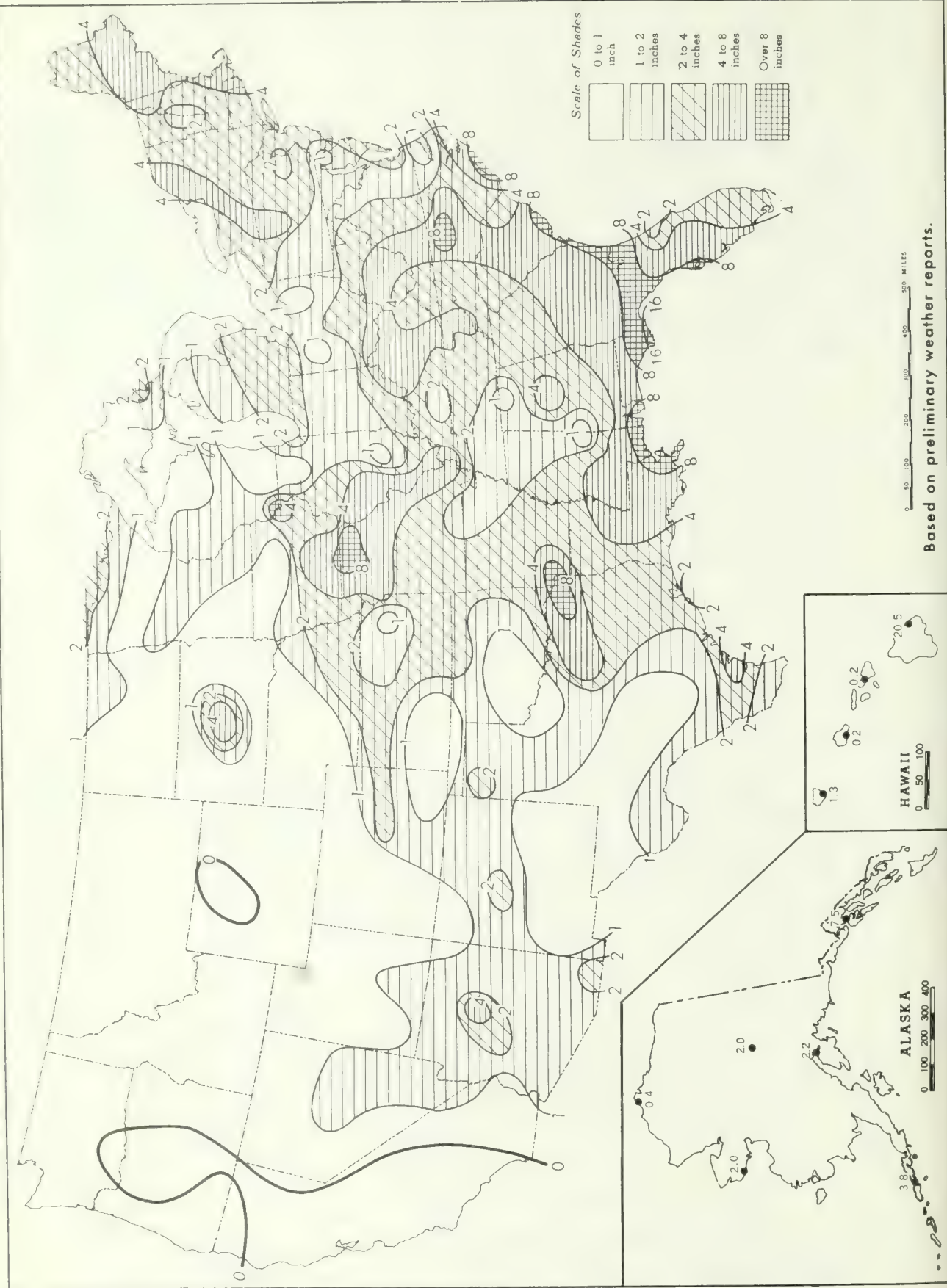
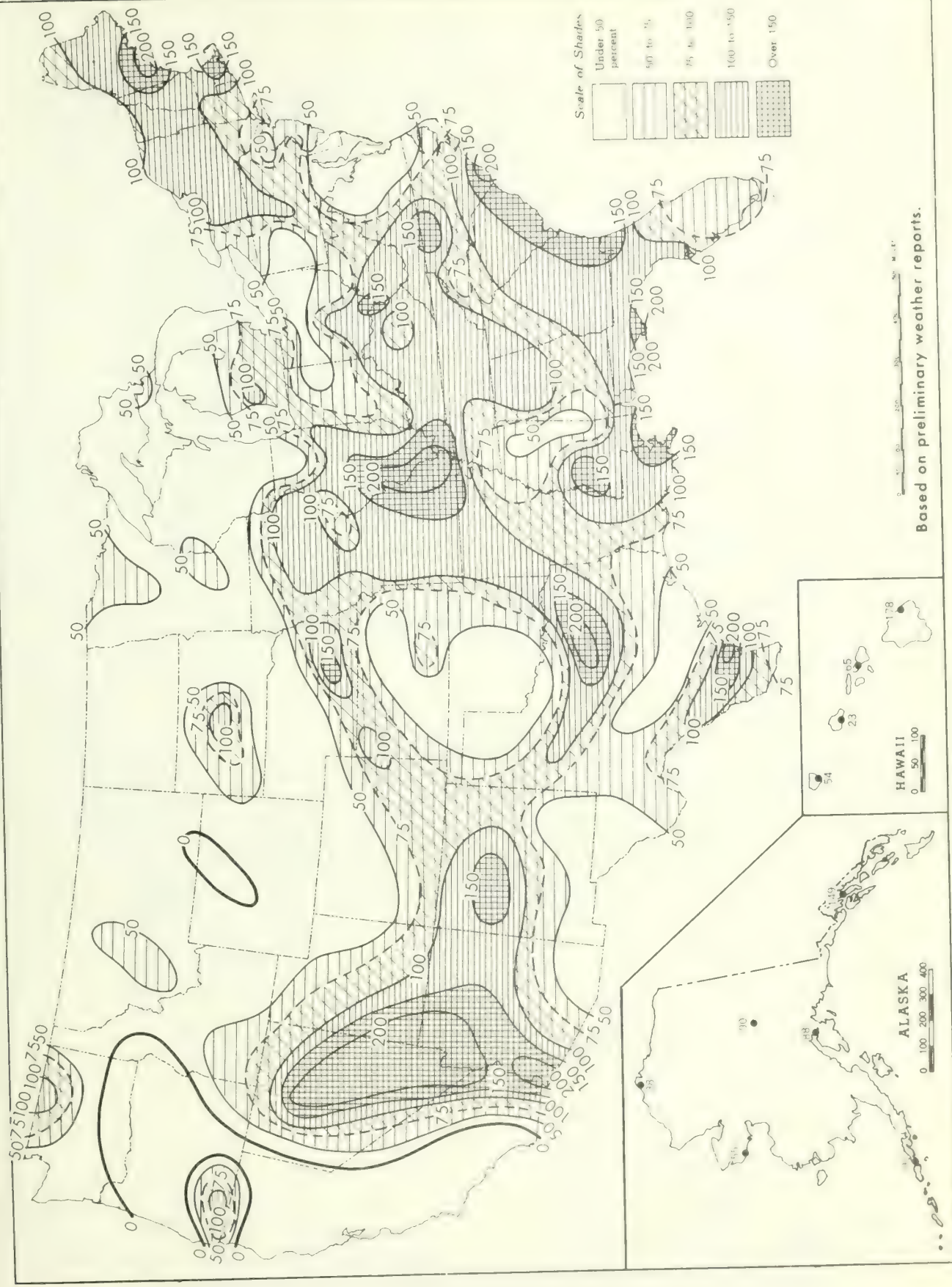
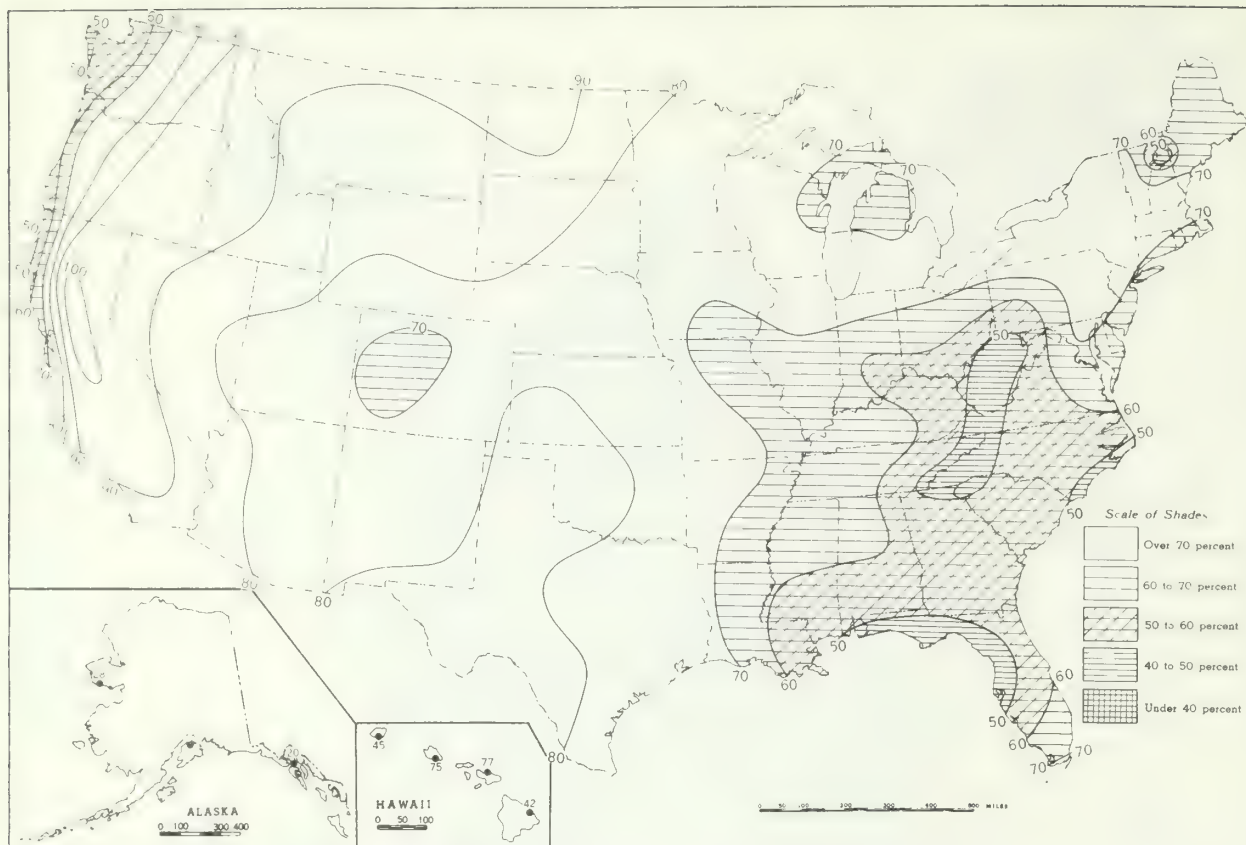


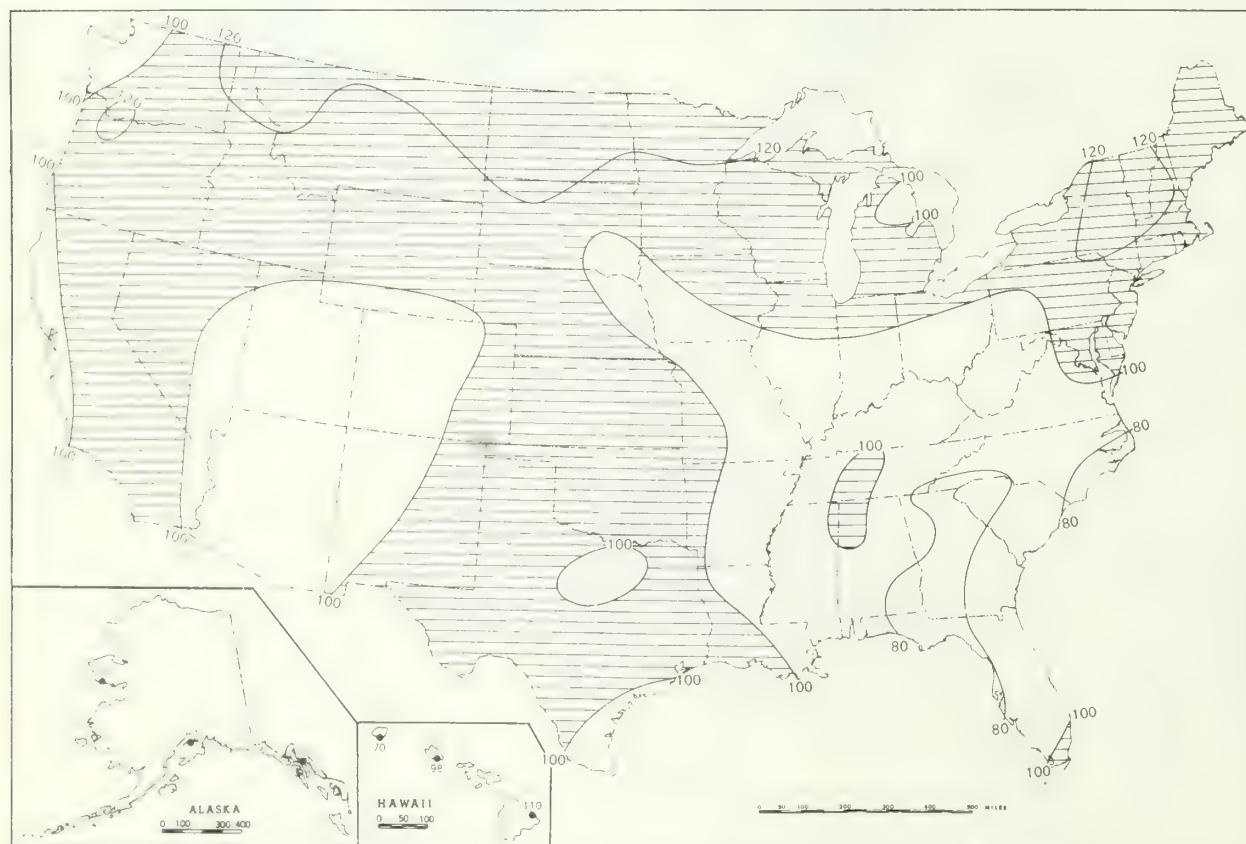
Chart III. Percentage of Normal Precipitation, August 1970.



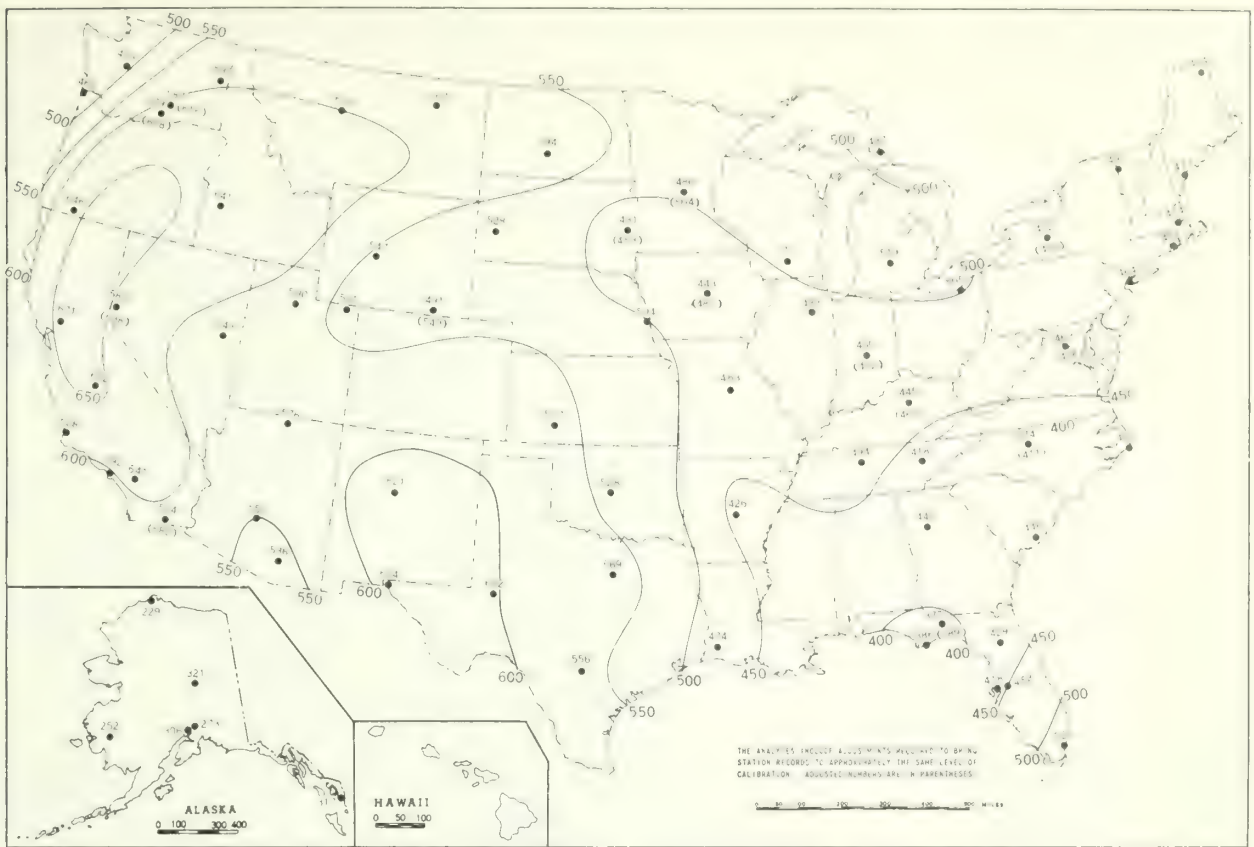
Based on preliminary weather reports.



B. Percentage of Mean Monthly Sunshine, August 1970.



A. Computed from total number of hours of observed sunshine in relation to total number of possible hours of sunshine during month. B. Means are computed for stations having at least 10 years of record.

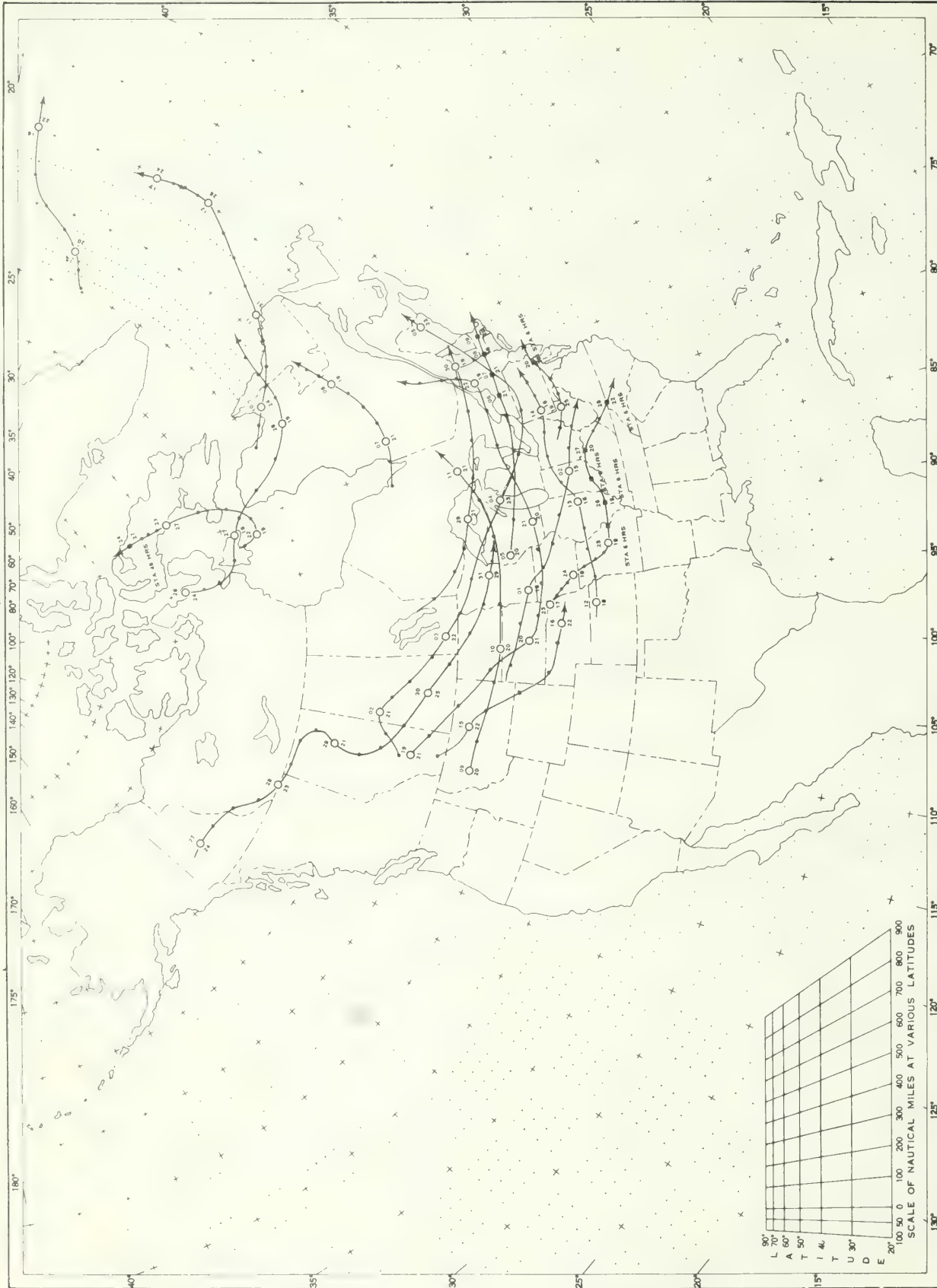


B. Percentage of Mean Daily Solar Radiation, August 1970.



A. Mean daily solar radiation, direct + diffuse, received on a horizontal surface in langleys (1 langley = 1 gm. cal. cm.⁻²) and recorded in International Pyrheliometer Scale of 1956. B. Percentage of the mean based on at least 5 years of record during the period 1950-60, and corrected to the International Pyrheliometer Scale of 1956.

Chart VIII. Tracks of Anticyclones at Sea Level, August 1970.



Circle indicates position of center at 7:00 a.m. E.S.T. Figure above circle indicates date; figure below, pressure to nearest millibar. Dots indicate intervening 6-hourly positions. Squares indicate position of stationary center for period shown. Dashed line in track indicates reformation at new position. Only those centers which could be identified for 24 hours or more are included.

28

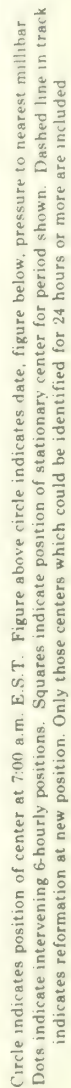
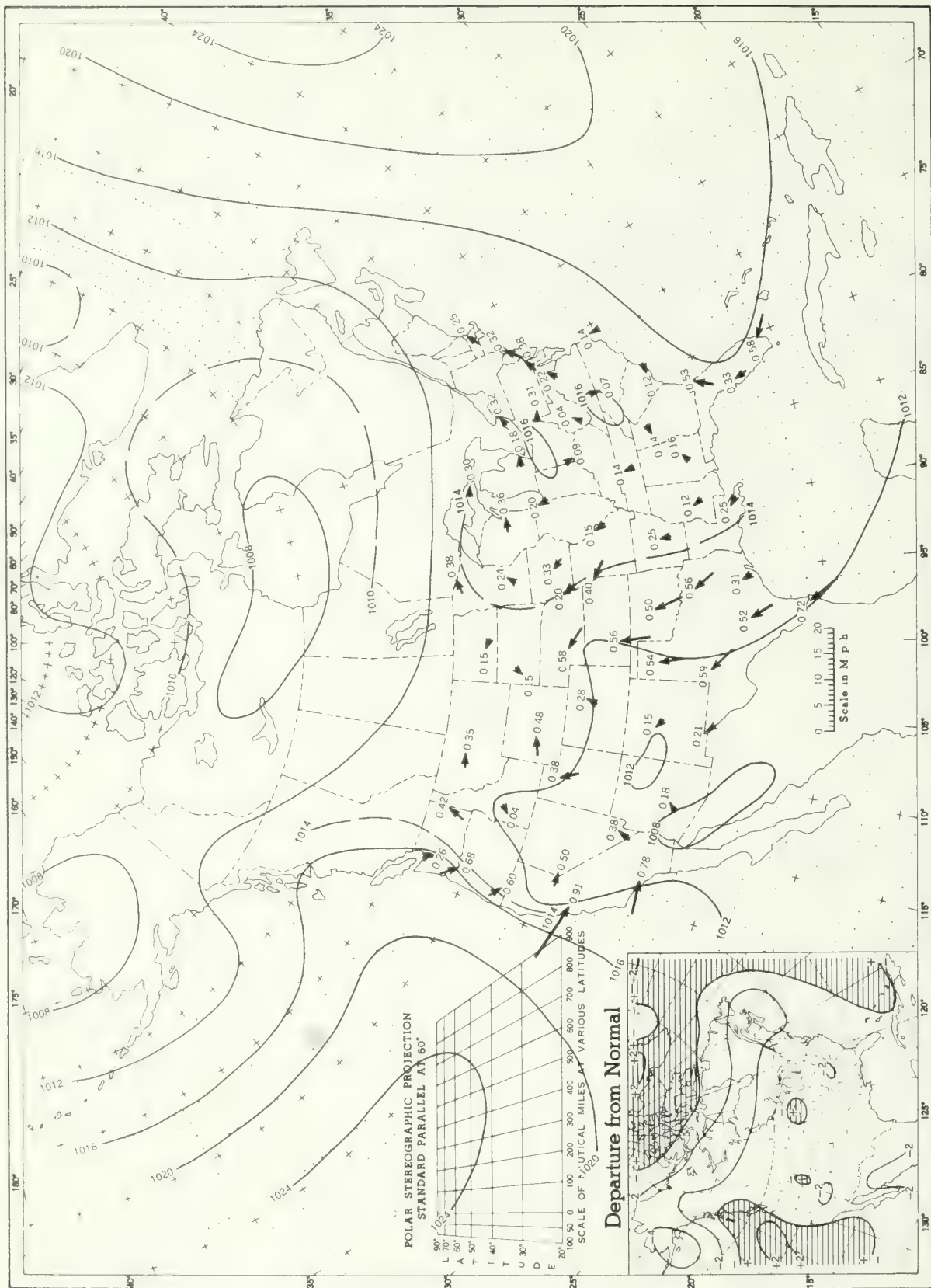
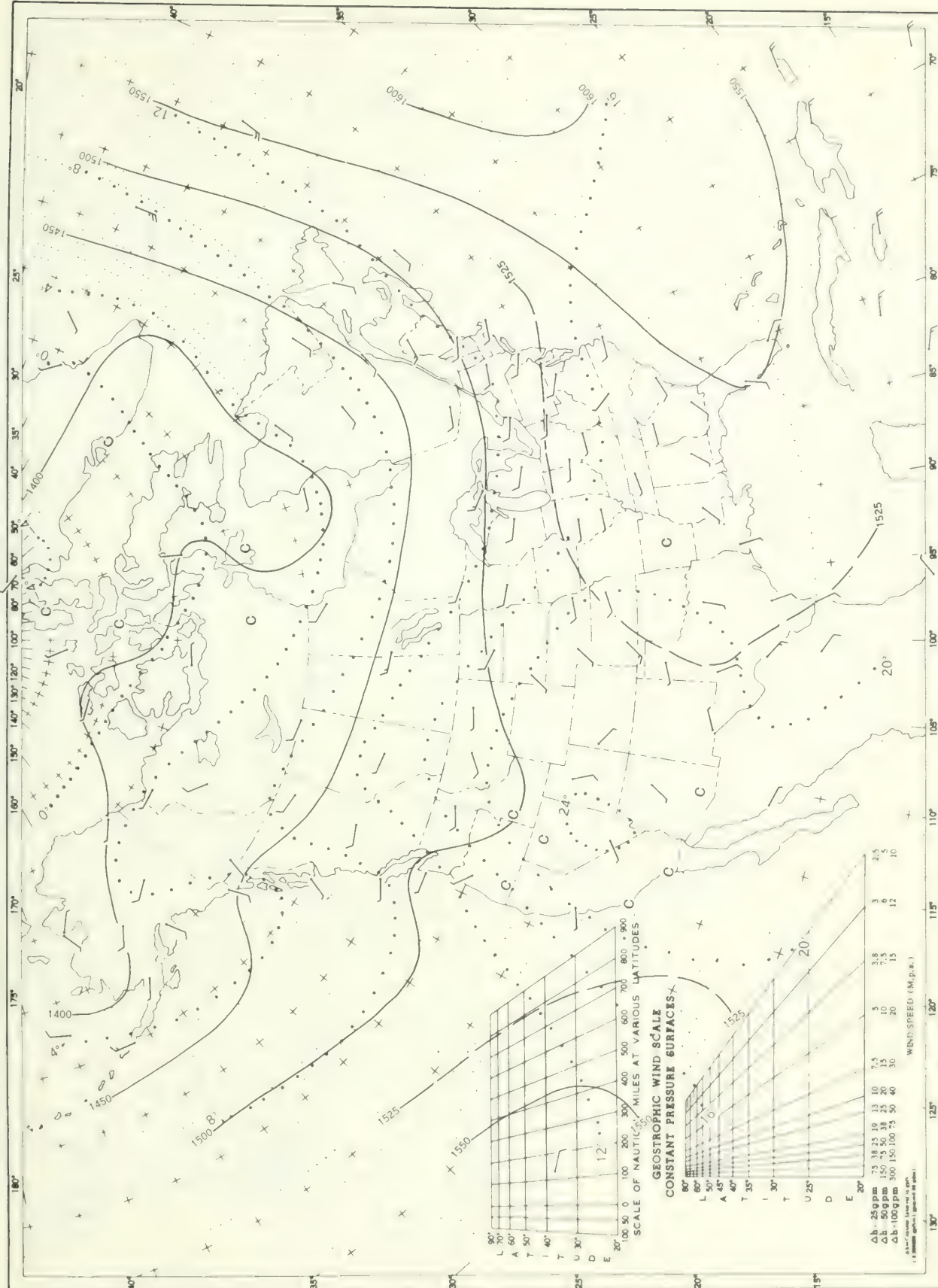


Chart X Average Sea Level Pressure (mb) and Resultant Surface Wind, August 1970. Inset: Departure of Average Pressure (mb) from Normal, August 1970.



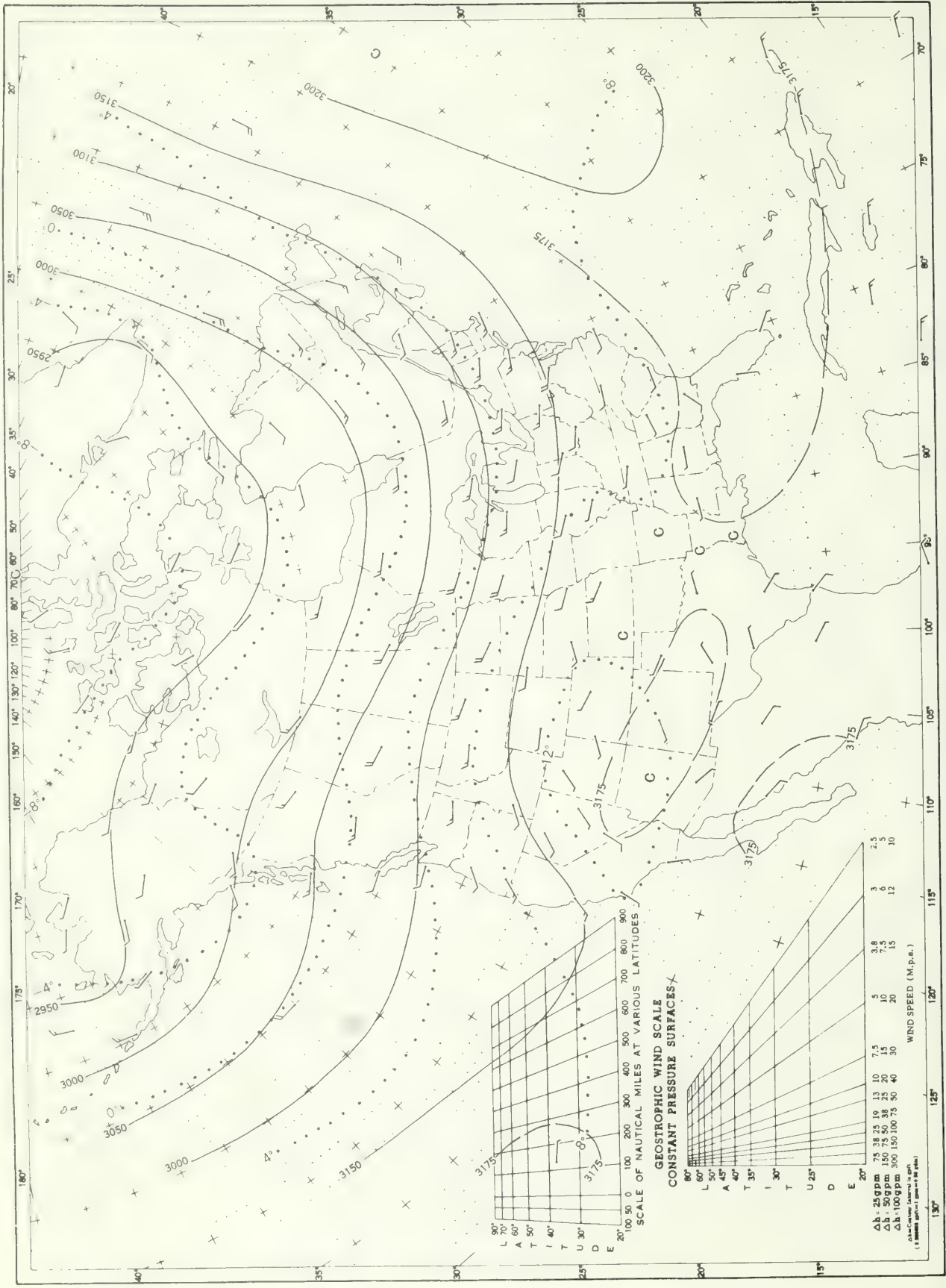
Average sea level pressures are obtained from eight daily 3-hourly observations. Resultant wind directions and speeds are shown by arrows. Constancy ratios (resultant speed-average speed) are shown to two decimal places. Pressure normals are computed for stations having at least 10 years of record and for 10° intersections in a diamond grid over the oceans.

- 441 -



Height in geopotential meters (1 g.p.m. = 0.98 dynamic meters). Temperature in °C. Wind speed in meters per second; flag represents 25 mps, full feather 5 mps, and half feather 2.5 mps. All wind data are based on rawin observations.

Chart XII. 700-mb. Surface, 1200 GMT, August 1970. Average Height and Temperature, and Resultant Winds



Height in geopotential meters (1 g.p.m. = 0.98 dynamic meters). Temperature in °C. Wind speed in meters per second; flag represents 25 mps, full feather 5 mps, and half feather 2.5 mps. All wind data are based on rawin observations.

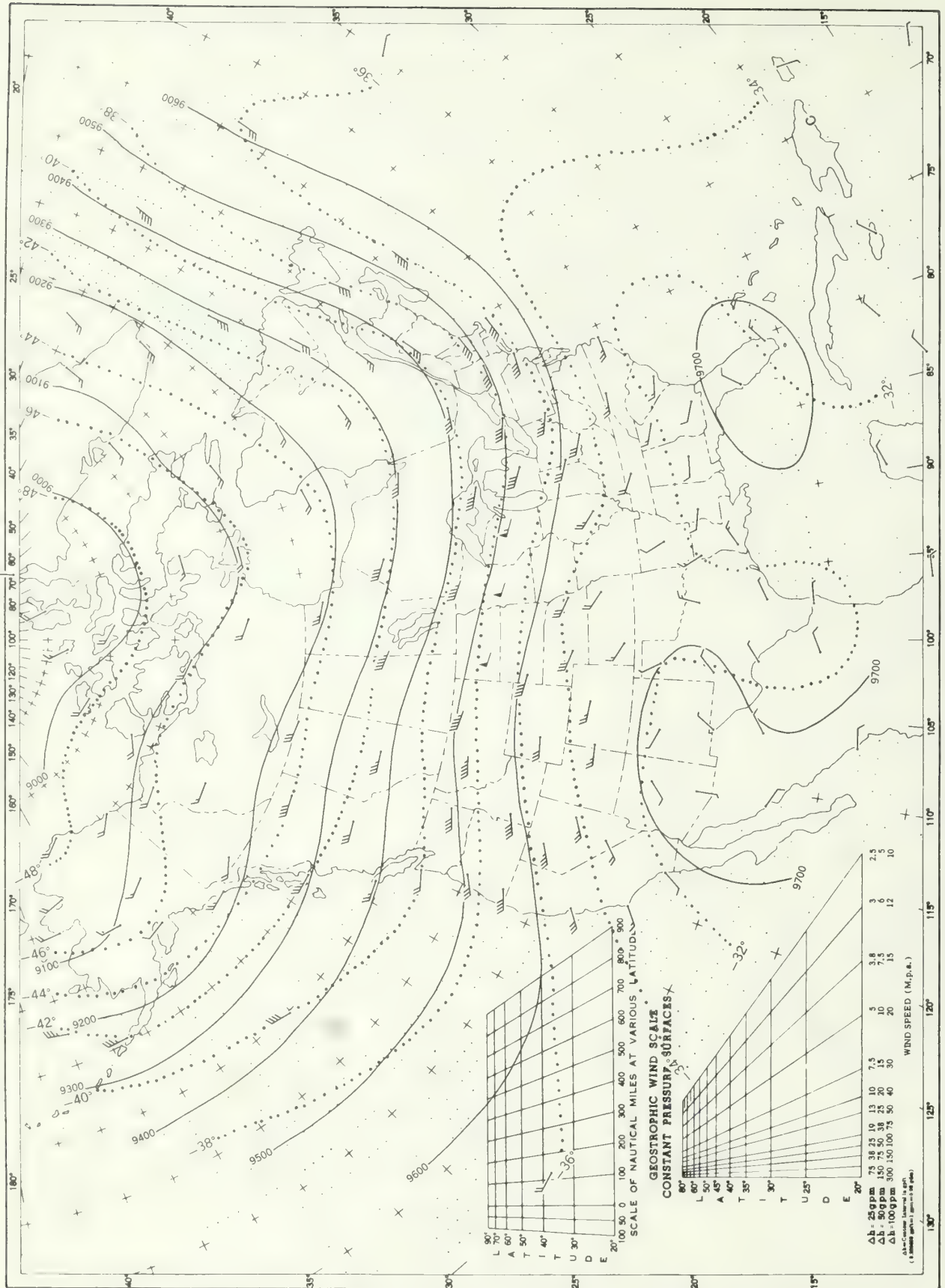
GEOSTROPHIC WIND SCALE
SCALE OF NAUTICAL MILES AT VARIOUS LATITUDES

| WIND SPEED (M.P.H.) | 20° | 30° | 40° | 50° | 60° | 70° | 80° | 90° | 100° | 110° | 120° | 130° |
|---------------------|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|
| Δh - 25gpm | 7.5 | 10 | 13 | 15 | 17 | 19 | 21 | 23 | 25 | 27 | 29 | 31 |
| Δh - 50gpm | 15 | 20 | 26 | 30 | 34 | 38 | 42 | 46 | 50 | 54 | 58 | 62 |
| Δh - 100gpm | 30 | 40 | 52 | 60 | 68 | 76 | 84 | 92 | 100 | 108 | 116 | 124 |

Δh = Change in Sea Level Pressure (in gpm)
M.P.H. = Miles Per Hour (in gpm)

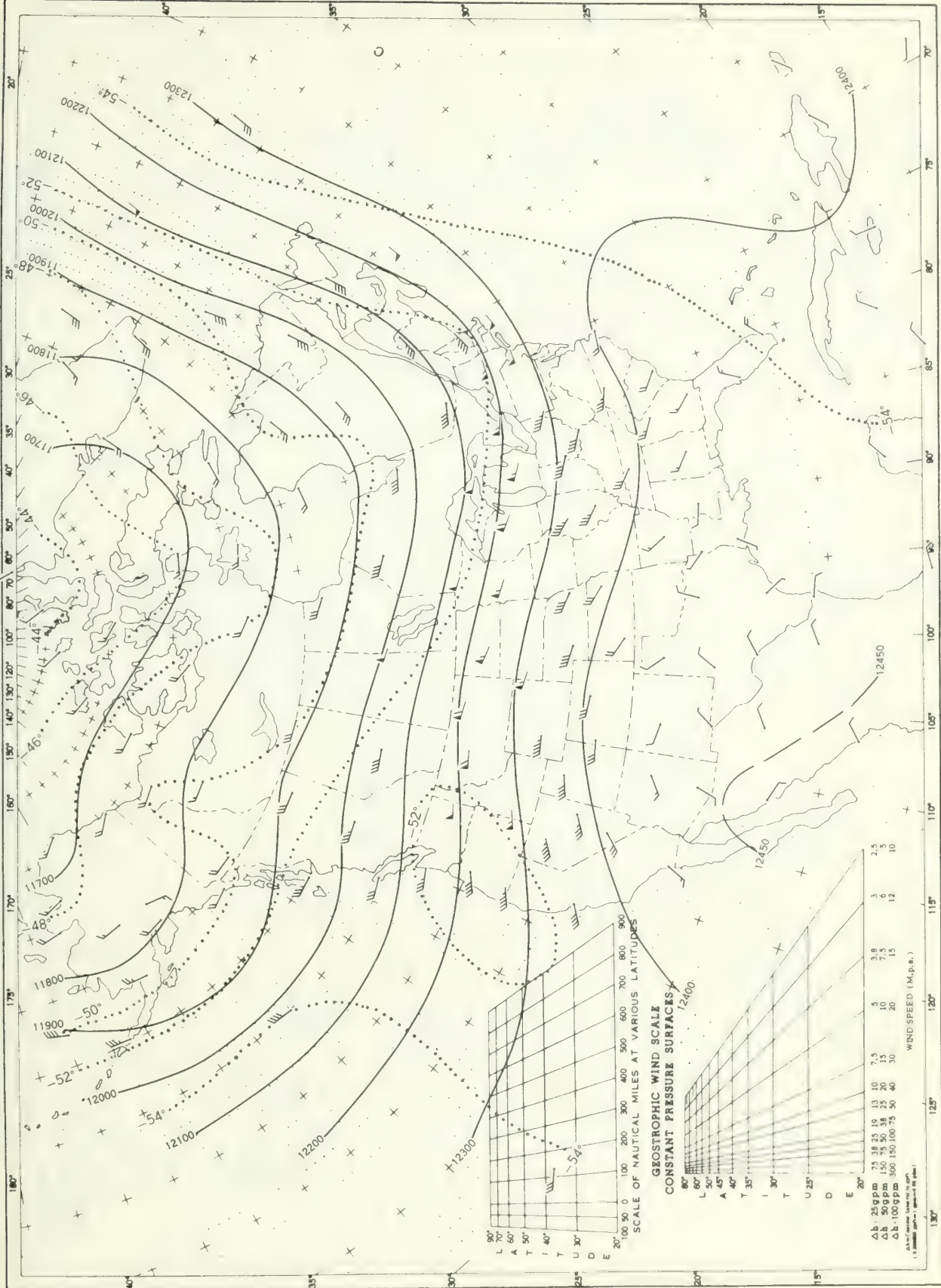
tential meters (1 g. m. = 0.98 dynamic meters). Temperature in °C. Wind speed in meters per second; flag represents 25 mps, full feather 5 mps, and half feather 2.5 mps. All wind data are based on rawin observations.

Chart XIV. 300-mb. Surface, 1200 GMT, August 1970. Average Height and Temperature, and Resultant Winds



Height in geopotential meters (1 g.p.m. = 0.98 dynamic meters). Temperature in °C. Wind speed in meters per second; flag represents 25 mps, full feather 5 mps, and half feather 2.5 mps. All wind data are based on rawin observations.

Chart XV. 200-mb. Surface, 1200 GMT, August 1970. Average Height and Temperature, and Resultant Winds.



Height in geopotential meters (1 g.p.m. = 0.98 dynamic meters). Temperature in °C. Wind speed in meters per second; flag represents 26 mps, full feather 6 mps, and half feather 2.5 mps. All wind data are based on rawin observations.

GEOSTROPHIC WIND SCALE

| Scale of Nautical Miles at Various Latitudes | 100 | 200 | 300 | 400 | 500 | 600 | 700 | 800 | 900 |
|--|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| L 70° | 1.0 | 2.0 | 3.0 | 4.0 | 5.0 | 6.0 | 7.0 | 8.0 | 9.0 |
| A 60° | 1.0 | 2.0 | 3.0 | 4.0 | 5.0 | 6.0 | 7.0 | 8.0 | 9.0 |
| T 50° | 1.0 | 2.0 | 3.0 | 4.0 | 5.0 | 6.0 | 7.0 | 8.0 | 9.0 |
| I 40° | 1.0 | 2.0 | 3.0 | 4.0 | 5.0 | 6.0 | 7.0 | 8.0 | 9.0 |
| T 30° | 1.0 | 2.0 | 3.0 | 4.0 | 5.0 | 6.0 | 7.0 | 8.0 | 9.0 |
| U 20° | 1.0 | 2.0 | 3.0 | 4.0 | 5.0 | 6.0 | 7.0 | 8.0 | 9.0 |
| D | 1.0 | 2.0 | 3.0 | 4.0 | 5.0 | 6.0 | 7.0 | 8.0 | 9.0 |
| E | 1.0 | 2.0 | 3.0 | 4.0 | 5.0 | 6.0 | 7.0 | 8.0 | 9.0 |

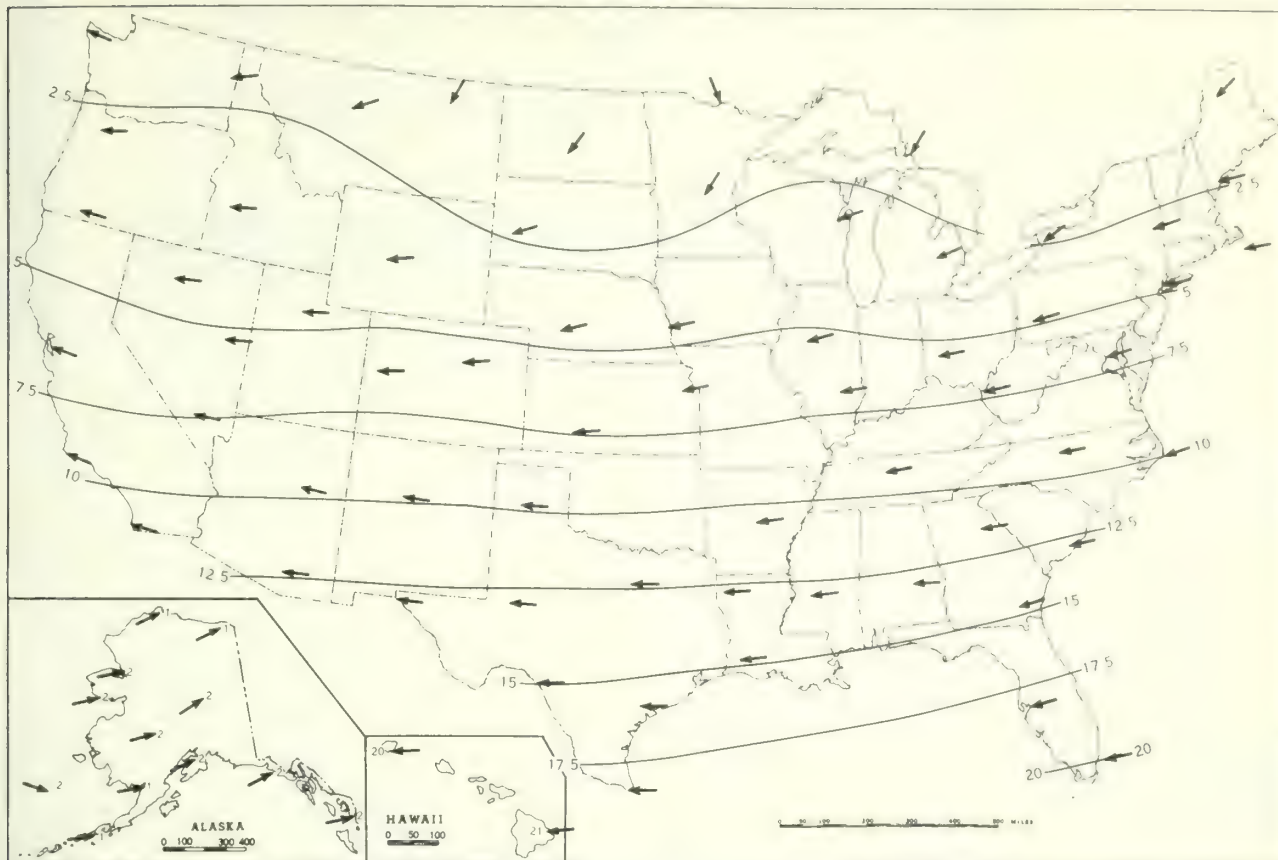
CONSTANT PRESSURE SURFACES

| Pressure (gpm) | 75 | 80 | 85 | 90 | 95 | 100 | 105 | 110 | 115 | 120 | 125 | 130 | 135 | 140 | 145 | 150 | 155 | 160 | 165 | 170 | 175 | 180 |
|----------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Δh - 25 gpm | 7.5 | 8.0 | 8.5 | 9.0 | 9.5 | 10.0 | 10.5 | 11.0 | 11.5 | 12.0 | 12.5 | 13.0 | 13.5 | 14.0 | 14.5 | 15.0 | 15.5 | 16.0 | 16.5 | 17.0 | 17.5 | 18.0 |
| Δh - 50 gpm | 15.0 | 16.0 | 17.0 | 18.0 | 19.0 | 20.0 | 21.0 | 22.0 | 23.0 | 24.0 | 25.0 | 26.0 | 27.0 | 28.0 | 29.0 | 30.0 | 31.0 | 32.0 | 33.0 | 34.0 | 35.0 | 36.0 |
| Δh - 100 gpm | 30.0 | 32.0 | 34.0 | 36.0 | 38.0 | 40.0 | 42.0 | 44.0 | 46.0 | 48.0 | 50.0 | 52.0 | 54.0 | 56.0 | 58.0 | 60.0 | 62.0 | 64.0 | 66.0 | 68.0 | 70.0 | 72.0 |

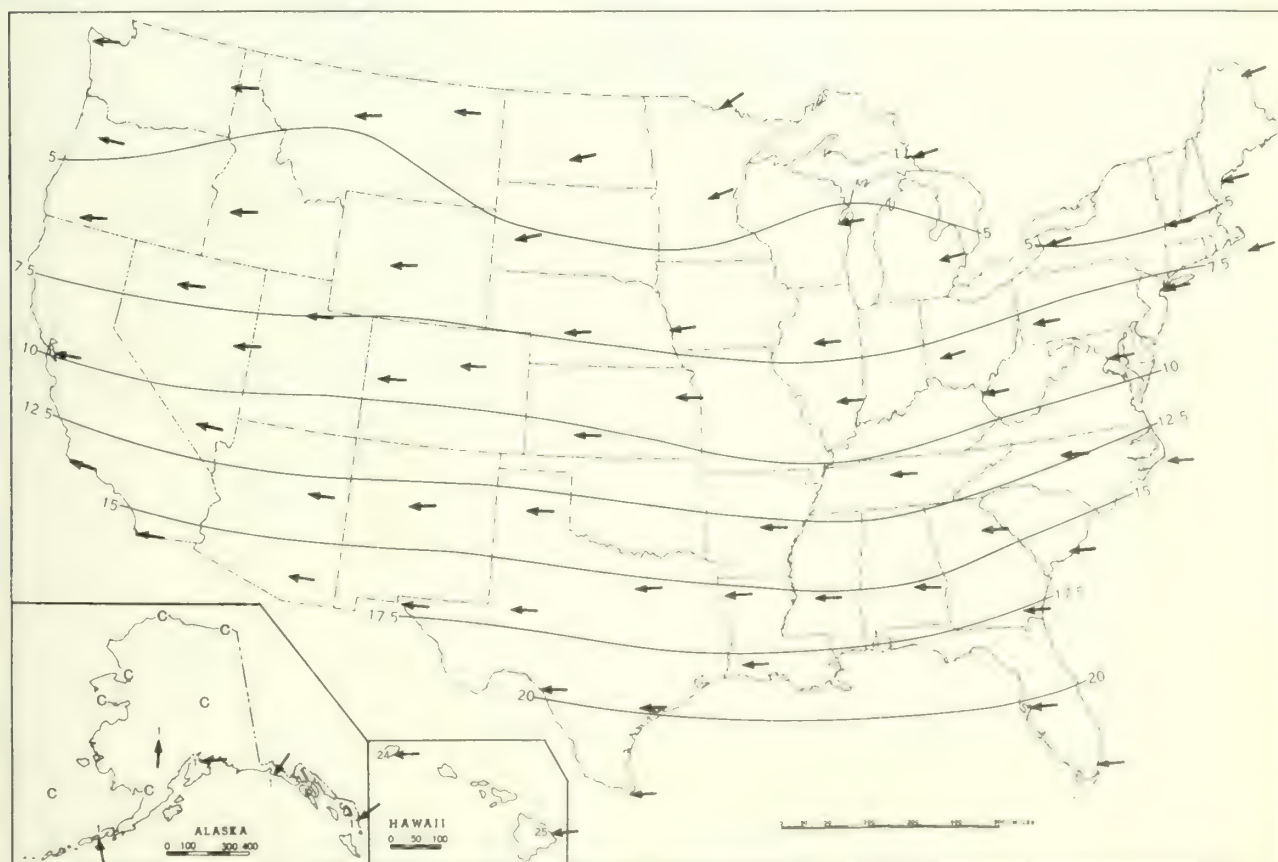
WIND SPEED (M.P.H.)

0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 95 100 105 110 115 120 125 130 135 140 145 150 155 160 165 170 175 180

Δ = Company Interval to cash
(1 January 1980) - (date of bid date)



B. 30-mb. Surface, 1200 GMT, August 1970. Resultant Winds.



Wind speed (isotachs) in meters per second. Arrows show resultant wind direction. All wind data are based on rawin observations.

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Clemson, South Carolina 29631



Climatological Data

NATIONAL SUMMARY

U.S. DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
ENVIRONMENTAL DATA SERVICE



MBER

1970

June 21

No. 9

yle, N.C.

1971

C O N T E N T S

| | |
|---|------|
| SURFACE DATA | Page |
| General Summary of Weather Conditions----- | 451 |
| Observed Extremes of Temperature and Precipitation - By States- | 452 |
| Climatological Data - Stations - English Units----- | 453 |
| Climatological Data - Stations - Metric Units----- | 460 |
| Heating Degree Days----- | 467 |
| Cooling Degree Days----- | 468 |
| Tropical Storm Felice, Sept. 11-17, 1970----- | 469 |
| Storm Summary----- | 471 |
| General Summary of River and Flood Conditions----- | 472 |
| Flood Stage Data----- | 474 |
|
UPPER AIR DATA | |
| Rawinsonde Data----- | 475 |
|
SOLAR RADIATION DATA | |
| Solar Radiation Intensities----- | 482 |
| Daily Totals and Monthly Averages----- | 483 |
| Net Radiation----- | 485 |
| Solar Ultra-Violet Radiation----- | 485 |
|
TOTAL OZONE DATA----- | 485 |
|
CHARTS I-XVII----- | 486 |

CLIMATOLOGICAL DATA

NATIONAL SUMMARY

Volume 21 No. 9

SEPTEMBER 1970

GENERAL SUMMARY OF WEATHER CONDITIONS

HIGHLIGHTS:

1. Cool weather predominated over the West. Record-breaking temperatures occurred in the Northeast late in the month. Quick temperature changes over mid-America resulted in near-normal monthly means.
2. Precipitation ranged widely from none in much of the Southwest to extremely heavy along the Texas coast and from northeastern Texas to southern Wisconsin. Elsewhere, rainfall amounts were mostly light to moderate.

TEMPERATURE.--In general, September temperatures averaged cooler than normal over the western half of the Nation and warmer than normal over the eastern half. The Great Basin and the northern Rocky Mountains averaged more than 4° cooler than normal. The lower Mississippi River Valley, the Ohio River Valley, Maryland, and northern Virginia averaged 3° to 6° warmer than normal.

September began with hot weather continuing over the interior Southwest. A number of places in the deserts recorded afternoon temperatures exceeding 110° in the first few days of September. Thermal, Calif., registered 113° on the 1st. The Deep South was warm and humid. Canadian air cooled the Northeast until about the middle of the first week when southerly breezes began warming that area. Rochester, N. Y., registered 44° on the morning of the 2d but their lowest temperature on the 4th was 73°. Most of Pennsylvania was 25° warmer on the 4th than on the 2d. Baltimore, Md., registered 94° on the 6th. Summer heat warmed the Great Plains to 100° or higher near the end of the 1st week of September. Pierre, S. Dak., registered 106° on the 6th. Much of the northern Great Plains averaged 6° to 14° warmer than normal in the first week of September.

The second week brought the coolest weather of the season to much of the Nation. This was especially noticeable in the Great Plains. Aberdeen, S. Dak., registered 98° on the 8th but no higher than 62° on the 9th. Wichita, Kans., recorded 102° on the 9th but only 76° on the 10th. Northerly winds brought subfreezing temperatures to the northern and central Rocky Mountains and the western edge of the central Great Plains. Southerly winds brought the return of summer temperatures to mid-America on September 11 when Aberdeen, S. Dak., and Wichita, Kans., registered 86° and 90°, respectively.

Also on the 11th, northerly breezes brought subfreezing weather to the northern and central Rockies with the temperature tumbling to 19° at Big Piney, Wyo. Subfreezing temperatures also occurred in parts of the central Great Plains where North Platte and Sidney, Nebr., registered 30° and 29°, respectively, on the morning of the 11th. The cold air invasions in the 2d week of September resulted in below-normal weekly average temperature from Washington and Oregon to Wisconsin and southward to Colorado and Kansas. Most other parts of the Nation averaged warmer than normal in the 2d week.

About midmonth, a Low pressure area moved northeastward across the central Great Plains to the Great Lakes. Sharp temperature contrasts occurred along the fronts of the system. On the 14th, afternoon tempera-

tures from Kansas to Michigan remained in the 40's and 50's while readings in the warm sector, from Texas to Ohio, reached the 80's and 90's. The sharp contrast continued the following day when Concordia, Kans., and Waterloo, Iowa, registered 60° when St. Louis, Mo., Springfield, Ill., and Fort Wayne, Ind., recorded 90°. The heat spread eastward and intensified in the 4th week of the month. On the 23d, Baltimore, Maryland, registered 98°, the warmest temperature ever to have occurred at Baltimore so late in the season. At Trenton, N. J., the mercury climbed to 90° or higher on 5 consecutive days, the only such occurrence in late September in more than 100 years.

In contrast to the record-breaking heat in the East in the 4th week of September, the West was quite chilly due to the northerly winds east of a large High centered off the northern Pacific Coast. Afternoon temperatures were mostly in the 50's and 60's with early morning readings in the 30's and 40's. Big Piney, Wyo., registered 13° on the 25th. A front separated the cool air in the West from the warm air in the East. As the front moved southeastward, cool autumn weather replaced summer heat. Much of the East was 20° or more cooler on the 27th than on the 26th. The maximums at Knoxville, Tenn., for those dates were 87° and 64°, respectively. The month ended with comparatively cool weather over the West and East with a warming trend over mid-America.

PRECIPITATION.--Light rains dampened the Northwest early in September, relieving the dangerous forest fire situation. As a high-pressure area moved eastward from the northern Great Plains, it was replaced by a low-pressure area with a cold front extending southward to Kansas and a warm front stretching southeastward to South Carolina. The system produced some violent thunderstorms and heavy showers. On the evening of September 2, winds gusted to 70 m.p.h. at Manhattan, Kans., and hail as large as grapefruit fell at Coffeyville. A windstorm at Leavenworth, Kans., blew down trees which blocked some streets and broke power lines. Heavy showers caused considerable flooding along many streams in Oklahoma and eastern Texas. Torrential rains fell in some mountainous areas in Arizona near the end of the 1st week of September. Crown King, Ariz., received 7.01 inches in a 24-hour period ending at 8 p.m., September 5. Snow fell in Tahoe Valley, Calif., on the evening of the 5th and in the central Rocky Mountains the following evening. On the 7th, damaging windstorms hit the central Great Plains. At Kearney, Nebr., the wind gusts reached 81 m.p.h. The northern and western regions of the Corn Belt received moderate to heavy rains while light to moderate amounts fell in the southern and eastern portions in the first week of September.

Widespread sunshine covered most of the Nation in the second week of September. There were, however, a few storms. The first major winter storm swept into Montana on the 11th. A low-pressure area moved into the western part of the State from Alberta on the afternoon of the 10th. Snowfall from this storm ranged from traces to a few inches in the lower valleys to a foot or more in the mountains in southern Montana. The highway in the Big Horn Mountains of Wyoming

SEPTEMBER 1970

became blocked by 14 inches of snow. Cold rain fell east and south of the snow area. By the 13th the rain area extended from Colorado to New England. Texas, caught between a cold front and a peripheral circulation of Hurricane Ella, received beneficial rains but no major damage from the hurricane.

About midmonth, a storm system moved northeastward across the Great Plains to the Great Lakes releasing widespread rain and drizzle from the northern and central Great Plains to the northern and middle Atlantic States.

On September 15, a tropical depression developed between the Florida Peninsula and the Bahamas. It intensified rapidly and in the afternoon produced gusty winds and locally heavy rains in Florida. On the evening of the 15th, Tropical Storm Felice smashed into the Galveston, Tex., vicinity. Winds at Galveston gusted to 55 m.p.h. as the storm passed and 6.25 inches of rain fell within a few hours. Felice moved northward through north-central Texas and, although the winds decreased to 30 m.p.h., it continued to produce heavy rains, 3.00 to 6.00 inches at many locations. Roanoke, Tex., received 5.80 inches in the 24-hour period ending in the forenoon of September 17. Thunderstorm and

shower activity continued that night along fronts that extended from northeastern Texas to the Great Lakes and in the warm, moist, Gulf air that streamed northward over the eastern half of the Nation. Heavy rains, 4.00 to about 6.00 inches fell on the 19th in parts of northern Arkansas. Healdton, Okla., received 6.00 inches and Blue Springs, Mo., received 5.40 inches of rain late on the 21st and early on the 22d. Larger amounts fell in Oklahoma late on the 22d and early on the 23d, 7.93 inches at Stroud, and 6.38 inches at Norman. Hail as large as baseballs fell about 10 miles south of Topeka, Kans. These heavy rains caused some streams to overflow and flood nearby lowlands.

A snow storm developed about the middle of the 4th week of September. It dumped 10 inches of snow at Fraser, Colo.

The last few days of September were notable for the abundance of bright sunshine and the absence of storms.

The Far Southwest received no rain or only very light sprinkles during the entire month. Brush fires became serious and burned uncontrollably over many square miles near the end of the month. They destroyed many residences.

OBSERVED EXTREMES OF TEMPERATURE AND PRECIPITATION -- BY STATES

SEPTEMBER 1970

| STATE | Temperature | | | | | | Precipitation | | | |
|----------------|-----------------------------|---------------|------|-----------------------------|--------------|------|-------------------------|-----------------|--------------------------|--------------|
| | Monthly extremes | | | | | | Monthly extremes | | | |
| | Station | Highest
°F | Date | Station | Lowest
°F | Date | Station | Greatest
In. | Station | Least
In. |
| Alabama | Redstone Arsenal | 100 | 1 | 2 Stations | 38 | 29 | Coden | 7.43 | 2 Stations | 0.00 |
| Alaska | Goose Bay Nike Site | 71 | 11 | Arctic Village | -13 | 30 | Annex Creek | 24.84 | Keisters Store | .10 |
| Arizona | 3 Stations | 113 | 2- | 2 Stations | 18 | 27- | Palisade R S | 8.86 | 3 Stations | .00 |
| Arkansas | 2 Stations | 100 | 14+ | 2 Stations | 40 | 28- | Odell 3 N | 17.40 | Nathan 4 WNW | .86 |
| California | Death Valley | 116 | 11 | 2 Stations | 9 | 25+ | Vacaville | 1.44 | 410 Stations | .00 |
| Colorado | Las Animas | 99 | 8 | Fraser | -1 | 26 | Wolf Creek Pass 1 E | 11.25 | 2 Stations | .55 |
| Connecticut | Norwalk Gas Plant | 95 | 24 | Coventry | 31 | 30 | Mount Carmel | 5.45 | Norwalk Gas Plant | 1.75 |
| Delaware | Milford 2 WSW | 99 | 23 | Georgetown 5 SW | 35 | 30 | Wilmington Porter Resvr | 1.25 | Milford 2 WSW | .72 |
| Florida | 5 Stations | 99 | 7+ | De Funiak Springs | 44 | 30 | Naples 2 NE | 13.32 | Chipley 3 E | .23 |
| Georgia | Quitman | 103 | 1 | Blairsville Exp Sta | 34 | 30 | Maysville | 8.43 | 2 Stations | .00 |
| Hawaii | Keawakapu Beach 260.2, Maui | 93 | 7- | Mauna Loa Slope Obs, Hawaii | 31 | 14 | Waikamoi Dam 36, Maui | 14.01 | 9 Stations | .00 |
| Idaho | Brownlee Dam | 103 | 2 | 3 Stations | 10 | 25 | Fenn Ranger Station | 4.86 | Howe | .27 |
| Illinois | Effingham | 100 | 7 | Wheaton 3 SE | 33 | 29 | Moline WBAP | 14.18 | Mt Carmel 1 NNW | 1.18 |
| Indiana | 3 Stations | 96 | 8- | Culver Experiment Farm | 30 | 29 | Rochester | 9.90 | 2 Stations | 1.03 |
| Iowa | Sioux Rapids | 101 | 6 | 2 Stations | 32 | 27 | Fort Madison | 17.94 | Emerson 4 ENE | 2.41 |
| Kansas | Webster Dam | 106 | 7 | 5 Stations | 30 | 26 | La Cynne | 18.00 | Saint Francis 8 NW | .64 |
| Kentucky | 3 Stations | 98 | 7+ | 2 Stations | 32 | 30- | Summer Shade | 10.82 | Dunmor | .67 |
| Louisiana | 2 Stations | 99 | 19+ | Chatnam | 43 | 29 | Bunkie | 11.97 | Monroe Lock No 4 | .31 |
| Maine | Saco | 92 | 22 | Bridgewater | 29 | 29- | Fort Kent | 6.44 | Bar Harbor | 1.58 |
| Maryland | Millington | 99 | 23 | Bittinger 2 NW | 34 | 29 | Cumberland | 5.17 | Baltimore WB City | .37 |
| Massachusetts | Chester 2 | 95 | 22 | Chester 2 | 30 | 12 | Woods Hole | 4.72 | Taunton | 1.45 |
| Michigan | Allegan Sewage Plant | 92 | 22 | 2 Stations | 24 | 29 | Mackinaw City No 2 | 11.30 | Detroit WBAP M Wayne C | 1.63 |
| Minnesota | Luverne | 101 | 6 | Cotton 10 E | 19 | 28 | Spring Grove 1 NW | 8.86 | Baudette 21 SSE | .83 |
| Mississippi | Pelahatchie | 99 | 2 | University | 42 | 28 | Jackson WBAP Thomp Fld | 6.48 | Vance | 1.15 |
| Missouri | Houston | 101 | 8 | Cole Camp 9 SE | 35 | 27 | Kahoka | 13.70 | Williamsville | 1.60 |
| Montana | 8 Stations | 98 | 5+ | Babb 6 NE | 7 | 13 | Bozeman 12 NE | 4.65 | Choteau Airport | .11 |
| Nebraska | Gavins Point Dam | 104 | 7 | Agate 3 E | 16 | 26 | Homer | 8.42 | Scottsbluff WBAP | .34 |
| Nevada | 2 Stations | 108 | 12+ | Mountain City RS | 8 | 25 | Lamoille Power House | 1.79 | 27 Stations | .00 |
| New Hampshire | 3 Stations | 92 | 23+ | Mount Washington | 24 | 1 | Mount Washington | 11.03 | Manchester | 2.64 |
| New Jersey | Hammonont 2 NNE | 99 | 24 | Indian Mills 2 W | 34 | 30 | Sussex 1 SE | 4.47 | Tuckerton | .37 |
| New Mexico | Jal | 103 | 3 | Eagle Nest | 12 | 26 | Fort Sumner | 8.42 | 2 Stations | .00 |
| New York | New York Laurel Hill | 98 | 23 | Old Forge | 31 | 2 | Westfield 3 SW | 11.78 | 2 Stations | 1.55 |
| North Carolina | Concord | 98 | 1 | Celo 2 S | 30 | 30 | Hatteras | 6.42 | Eden | .27 |
| North Dakota | Breien | 102 | 1 | Uppman 3 N | 18 | 13 | La Moure | 5.64 | Wishek | .58 |
| Ohio | Ironton | 96 | 15 | Mansfield 6 W | 29 | 29 | Alexandria 4 WSW | 7.16 | Delaware | 1.26 |
| Oklahoma | Mangum Research Sta | 108 | 4 | 2 Stations | 32 | 26 | Stilwell 1 NE | 15.51 | Beaver 1 SW | .46 |
| Oregon | Huntington | 98 | 1 | Fremont | 2 | 14 | Nehalem 9 NE | 10.33 | 2 Stations | .00 |
| Pennsylvania | Graterford 1 E | 98 | 24 | Zion Grove | 27 | 29 | Warren | 8.23 | West Chester 1 W | .71 |
| Puerto Rico | 3 Stations, P R | 95 | 23- | 2 Stations, P R | 58 | 26- | Jayuya 1 SE, P R | 32.25 | Ponce City, P R | 2.15 |
| Rhode Island | Providence WBAP | 92 | 23 | Kingston | 37 | 30 | Kingston | 5.46 | Providence WBAP | 1.79 |
| South Carolina | Clark Hill Dam | 99 | 1 | 3 Stations | 36 | 30 | Lake City | 7.34 | Lockhart | .35 |
| South Dakota | 2 Stations | 106 | 6 | Custer | 20 | 28- | Gettysburg 14 W | 4.96 | Stephan 1 ENE | .25 |
| Tennessee | Moscow | 99 | 2 | Mountain City No 2 | 32 | 30 | Huntington Sewage Pl | 10.48 | Clarksville Sew Plt | .67 |
| Texas | 8 Stations | 105 | 5- | Fort Hancock | 30 | 30 | Washington State Park | 15.47 | Umbarger | .19 |
| Utah | Hite Marina | 101 | 11 | Soldier Creek | 9 | 26+ | Cedar Point | 5.72 | Antimony | .00 |
| Vermont | Vernon | 92 | 23 | 2 Stations | 31 | 30+ | Montpelier FAA AP | 8.36 | Montpelier FAA AP | 2.43 |
| Virginia | Colonial Beach | 98 | 10 | Partlow 3 WNW | 25 | 30+ | Pennington Gap | 4.67 | Danville-Bridge St | .40 |
| Washington | 4 Stations | 93 | 1 | Mount Spokane Summit | 18 | 14 | Clearwater | 12.08 | Priest Rapids Dam | .00 |
| West Virginia | Martinsburg FAA AP | 96 | 24 | Buckeye | 30 | 30 | laeger | 6.81 | Kearneysville 1 NW WBASO | .77 |
| Wisconsin | West Allis | 91 | 2 | Drummond 6 W | 24 | 28 | Clinton 2 N | 12.55 | Superior | 1.92 |
| Wyoming | Sheridan Field Sta | 97 | 4 | Bondurant 3 NW | 6 | 25 | 2 Stations | 3.40 | Bates Creek No 2 | .01 |

+ And also on an earlier date or dates.

Note: Dates for all data apply to the period 24 hours preceding the observation. In some cases the actual occurrence is on the calendar date preceding that shown. (See individual Climatological Data for times of observations.)

SEPTEMBER 1970

See footnotes at end of table

ENGLISH UNITS

SEPTEMBER 1970

See footnotes at end of table

CLIMATOLOGICAL DATA

ENGLISH UNITS

SEPTEMBER 1970

| State and Station | Pressure | | Temperature | | | | | Precipitation | | | | | Wind | | | | No. of days (sunrise to sunset) | Sky cover, tenths (sunrise to sunset) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | Station | Sea level | Average maximum | Average minimum | Average | Departure from normal | Highest | Date | Lowest | Date | No. of days | Max. 90° F. or above | Min. 32° F. or below | Average dew point | Average relative humidity | Total | | | Departure from normal | Greatest in 24 hours | With thunderstorms | Snow, ice pellets | | Resulant direction | Speed | Direction | Fastest mile | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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See footnotes at end of table.

CLIMATOLOGICAL DATA

ENGLISH UNITS

SEPTEMBER 1970

| State and Station | Elevation (ground) | Pressure | | Temperature | | | | | | | | | | Precipitation | | | | Wind | | | | No. of days (sunrise to sunset) | | Possible sunshine (sunrise to sunset) | % | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | | Station Q | Sea level | Average maximum | Average minimum | Average | Departure from normal | Highest | Date | Lowest | Date | No. of days | | Total | Departure from normal | Greatest in 24 hours | With thunderstorms | No. of days | | Residual speed | Residual direction | | | | | Fastest mile | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | Max. 90° F. or above | Min. 32° F. or below | | | | | In. | F. | | | In. | Mph. | | | Mph. | In. | Mph. | Speed | Direction | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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CLIMATOLOGICAL DATA

ENGLISH UNITS

SEPTEMBER 1970

| State and Station | Elevation (ground) | Pressure | | Temperature | | | | | | | | | | Precipitation | | | | | Wind | | | | No. of days (sunrise to sunset) | | Sky cover, tenths (sunrise to sunset) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | | Station Q | Sea level | Average maximum | Average minimum | Average | Departure from normal | | Highest | Date | Lowest | No. of days | | Average dew point | Average relative humidity | Total | | | Greatest in 24 hours | No. of days | | Ice pellets | | | | Snow, on ground | Resultant speed | Resultant direction | Fastest mile | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| State and Station | Elevation (ground) | Pressure | | Temperature | | | | | | | | Precipitation | | | | | Wind | | | | No. of days (sunrise to sunset) | | | Sky cover, tenths (sunrise to sunset) | % | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | | Station Q | Sea level | Average maximum | Average minimum | Average | | Departure from normal | Highest | | Date | | No. of days | | Average dew point | Average relative humidity | Total | In. | Departure from normal | Greatest in 24 hours | | No. of days | | | | Ice pellets | | Resultant speed | Resultant direction | Fastest mile | | Clear 0-3 | Partly cloudy, 4-7 | Cloudy, 8-10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. |

Data from airport unless otherwise specified. U indicates Urban, R indicates Rural, sites.

Precipitation data in column headed "Greatest in 24 hours" are computed on a 24-hour basis without regard to calendar day-data may include precipitation with a measurable amount from the last day of the previous month or the first day of the following month.

Wind directions under resultant direction are in tens of degrees.

Value entered in column "Fastest Mile" is the highest observed 1-minute wind speed when the direction is in tens of degrees. These stations are not equipped with a recording anemometer from which "Fastest Mile" data can be evaluated.

R Number of days maximum 70° F. or above for Alaskan Stations.

Y Peak gust.

- And also on an earlier date or dates.

0 Station pressures apply to elevations shown in the "Elevations - Station Pressure" table of the annual issue of this publication.

METRIC UNITS

[illegible]

METRIC UNITS

SEPTEMBER 1970

See footnotes at end of table

CLIMATOLOGICAL DATA

METRIC UNITS

SEPTEMBER 1970

| State and Station | Elevation (ground) | Pressure | | Temperature | | | | | | Precipitation | | | | Wind | | | No. of days (sunrise to sunset) | | Possible sunshine (sky cover, tenths (sunrise to sunset)) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | | Station | Sea level | Average minimum | Departure from normal | | Highest | Lowest | Date | No. of days | Average dew point | Average relative humidity | Snow, ice pellets | | Resultant speed | Resultant direction | Fastest mile (1.6 kilometers) | | | Date | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | C. | F. | | | | | | | Mm. | In. | | | M.p.h. | K.m.p.h. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | C. | F. | Mm. | In. | M.p.h. | K.m.p.h. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C. | F. | Mm. | In. | M.p.h. | K.m.p.h. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | | | | | | | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. |

CLIMATOLOGICAL DATA

METRIC UNITS

| State and Station | Elevation (ground) | Pressure | | Temperature | | | | | | Precipitation | | | | Wind | | | | No of days (sunrise to sunset) | SEPTEMBER 1970 | | | | | | | | | | | | | | | |
|-------------------|--------------------|----------|-----------|-----------------|-----------------|---------|-----------------------|---------|------|---------------|------|----------------------|-------------------|-------|----|-----------------------|----------------------|--------------------------------|----------------|---------------|-------------|-------------------|-----------------|---------------------|-------|-------------------------------|-----------|------|------------|-------------------|-------------|---------------------------------------|-------------------|---------------------------|
| | | Station | Sea level | Average maximum | Average minimum | Average | Departure from normal | Highest | Date | Lowest | Date | No. of days | | Total | Mm | Departure from normal | Greatest in 24 hours | | | 25 mm or more | No. of days | Snow, ice pellets | Resultant speed | Resultant direction | Speed | Fastest mile (1.6 kilometers) | Direction | Date | Clear, 0-3 | Partly cloudy 4-7 | Cloudy 8-10 | Sky cover, tenths (sunrise to sunset) | | |
| | | | | | | | | | | | | Max 32.2 °C or above | Min 0 °C or lower | | | | | | | | | | | | | | | | | | | | Average dew point | Average relative humidity |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MISSISSIPPI | | M | Mb | C | C | C | C | C | C | C | C | | | | | | | | | | | | | | | | | | | | | | | |
| JACKSON | 94 | 1005.8 | 1017.4 | 32.8 | 21.1 | 26.7 | 2.0 | 35.0 | 10+ | 11.1 | 30 | 23 | 0 | 21.7 | 80 | 165 | 100 | 84 | 9 | 5 | 0 | 1.3 | 15 | 10.7 | SE | 7 | 8 | 15 | 7 | 5.1 | 71 | | | |
| MERIDIAN | 88 | 1006.8 | 1017.7 | 32.8 | 20.0 | 26.2 | 1.8 | 35.0 | 20+ | 8.9 | 29 | 25 | 0 | 21.1 | 79 | 54 | - 31 | 20 | 8 | 5 | 0 | 0.3 | 13 | 8.9 | 3 | 28 | 8 | 12 | 10 | 5.6 | | | | |
| MISSOURI | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| COLUMBIA REGIONAL | 270 | 986.4 | 1016.2 | 26.1 | 15.6 | 21.1 | 0.3 | 32.2 | 7 | 6.7 | 27 | 1 | 0 | 15.6 | 75 | 227 | 129 | 58 | 15 | 6 | 0 | 1.2 | 19 | 16.5 | W | 9 | 6 | 9 | 15 | 6.3 | 54 | | | |
| KANSAS CITY | 226 | 988.5 | 1015.3 | 27.2 | 16.7 | 22.0 | 0.2 | 37.2 | 9 | 7.8 | 27 | 6 | 0 | 15.6 | 70 | 274 | 192 | 135 | 14 | 9 | 0 | 0 | 1.1 | 17 | 17.9 | W | 3 | 9 | 8 | 13 | 5.7 | 58 | | |
| ST JOSEPH | 247 | 991.5 | 1016.4 | 27.2 | 15.6 | 21.4 | 1.1 | 35.6 | 9 | 5.0 | 27 | 7 | 0 | 13.9 | 73 | 271 | 184 | 135 | 14 | 9 | 0 | 0 | 0.8 | 17 | 20.6 | 28 | 3 | 14 | 4 | 12 | 5.3 | 77 | | |
| ST LOUIS | 163 | 996.3 | 1016.4 | 27.8 | 16.1 | 22.1 | 1.3 | 35.6 | 7 | 5.6 | 27 | 6 | 0 | 17.8 | 79 | 141 | 171 | 35 | 15 | 11 | 0 | 1.4 | 20 | 15.2 | NW | 9 | 6 | 12 | 12 | 6.1 | 66 | | | |
| SPRINGFIELD | 386 | 971.9 | 1016.4 | 28.3 | 16.7 | 22.4 | 1.1 | 33.3 | 7 | 5.6 | 27 | 5 | 0 | 17.2 | 77 | 251 | 153 | 88 | 16 | 12 | 0 | 2.1 | 18 | 17.0 | NW | 3 | 9 | 9 | 12 | 5.5 | 77 | | | |
| MONTANA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BILLINGS | 1087 | 892.0 | 1015.5 | 20.0 | 6.7 | 13.2 | - 2.6 | 32.8 | 4 | - 1.7 | 13 | 1 | 4 | 2.8 | 55 | 49 | 19 | 13 | 9 | 4 | 124 | 51 | 2.8 | 26 | 17.9 | NW | 1 | 8 | 12 | 10 | 4.4 | 62 | | |
| GLASSBORO | 1986 | 931.9 | 1013.6 | 21.1 | 5.6 | 13.4 | - 0.3 | 35.0 | 4 | - 3.3 | 13+ | 2 | 4 | 2.2 | 53 | 34 | 9 | 16 | 7 | 1 | 1 | 1.3 | 32 | 13.9 | 23 | 1 | 9 | 17 | 9 | 4.7 | 62 | | | |
| GREAT FALLS | 1116 | 889.6 | 1015.5 | 20.0 | 5.6 | 12.6 | - 1.6 | 29.4 | 3 | - 2.8 | 14 | 0 | 7 | 0.0 | 49 | 17 | - 13 | 7 | 5 | 1 | 1 | 3.5 | 25 | 18.8 | SW | 22 | 10 | 7 | 14 | 5.8 | 67 | | | |
| HARTFORD | 788 | 922.5 | 1014.2 | 21.1 | 4.9 | 13.0 | - 0.1 | 32.2 | 1 | - 5.6 | 14 | 0 | 8 | 0.0 | 48 | 15 | - 10 | 12 | 4 | 2 | 1 | 7 | 2.9 | 15.2 | NW | 26 | 9 | 4 | 17 | 4.2 | 79 | | | |
| HELENA | 1167 | 881.8 | 1017.4 | 18.9 | 2.2 | 10.6 | - 2.7 | 29.4 | 18 | - 7.8 | 14 | 0 | 12 | - 1.7 | 49 | 9 | - 15 | 6 | 6 | 1 | 1 | 0 | 1.9 | 20 | 13.0 | NW | 18 | 6 | 7 | 17 | 4.2 | 65 | | |
| KALISPELL | 904 | 913.0 | 1018.1 | 17.8 | 1.1 | 9.4 | - 3.2 | 27.8 | 1 | - 8.9 | 14 | 0 | 16 | 1.7 | 64 | 23 | - 4 | 8 | 9 | 1 | 1 | 0 | 0.7 | 17 | 11.2 | 1 | 11 | 10 | 5 | 15 | 5.9 | | | |
| MILLS CITY | 851 | 921.4 | 1013.8 | 21.7 | 7.2 | 14.5 | - 1.6 | 35.6 | 4 | - 1.7 | 12 | 2 | 3 | 4.4 | 56 | 36 | 12 | 5 | 8 | 1 | 15 | 0 | 1.8 | 28 | 11.2 | N | 3 | 7 | 9 | 14 | 6.1 | 57 | | |
| MISSOULA | 172 | 906.5 | 1018.9 | 18.9 | 1.7 | 10.3 | - 2.7 | 29.4 | 3 | - 6.7 | 14 | 0 | 13 | 1.7 | 63 | 12 | - 14 | 5 | 8 | 1 | 1 | 0 | 1.6 | 31 | 14.8 | N | 3 | 7 | 9 | 14 | 6.1 | 57 | | |
| NEBRASKA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| GRAND ISLAND | 561 | 949.5 | 1014.9 | 25.0 | 11.1 | 18.0 | - 0.4 | 38.3 | 6 | 1.7 | 26 | 4 | 0 | 10.0 | 65 | 146 | 92 | 42 | 13 | 6 | 0 | 0.9 | 20 | 17.9 | 25 | 25 | 12 | 9 | 9 | 4.7 | 62 | | | |
| LINCOLN | 351 | 949.5 | 1014.9 | 24.4 | 13.3 | 18.9 | - 1.2 | 35.6 | 6 | 4.4 | 26 | 3 | 0 | 10.0 | 65 | 148 | 75 | 54 | 11 | 5 | 0 | 0 | 0.9 | 20 | 17.9 | NW | 3 | 11 | 4 | 11 | 4.9 | 62 | | |
| NORFOLK | 471 | 949.5 | 1014.9 | 24.4 | 13.3 | 18.9 | - 1.2 | 35.6 | 6 | 4.4 | 26 | 3 | 0 | 10.0 | 65 | 148 | 75 | 54 | 11 | 5 | 0 | 0 | 0.9 | 20 | 17.9 | NW | 3 | 11 | 4 | 11 | 4.9 | 62 | | |
| NORTH PLATTE | 866 | 917.4 | 1014.4 | 25.0 | 12.8 | 19.0 | - 1.6 | 35.6 | 6 | - 2.2 | 26 | 7 | 4 | 7.2 | 62 | 207 | 149 | 99 | 11 | 5 | 0 | 0 | 0.4 | 13 | 17.0 | NW | 11 | 4 | 11 | 5 | 4.6 | 77 | | |
| OMAHA | 278 | 985.0 | 1014.9 | 25.0 | 12.8 | 19.0 | - 1.6 | 35.6 | 6 | - 2.2 | 26 | 7 | 4 | 7.2 | 62 | 207 | 149 | 99 | 11 | 5 | 0 | 0 | 0.4 | 13 | 17.0 | NW | 11 | 4 | 11 | 5 | 4.6 | 77 | | |
| SALT SPRING | 1236 | 874.8 | 1014.9 | 23.3 | 5.0 | 14.1 | - 2.8 | 33.9 | 1 | - 3.9 | 26 | 4 | 4 | 2.8 | 55 | 18 | - 14 | 7 | 5 | 2 | 0 | 0.5 | 17 | 16.3 | NW | 9 | 14 | 6 | 8 | 3.0 | 61 | | | |
| VALENTINE | 789 | 874.8 | 1014.9 | 23.3 | 5.0 | 14.1 | - 2.8 | 33.9 | 1 | - 3.9 | 26 | 4 | 4 | 2.8 | 55 | 18 | - 14 | 7 | 5 | 2 | 0 | 0.5 | 17 | 16.3 | NW | 9 | 14 | 6 | 8 | 3.0 | 61 | | | |
| NEVADA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ELKO | 1539 | 845.9 | 1016.5 | 22.8 | 0.6 | 11.7 | - 2.7 | 31.7 | 3 | - 8.9 | 25 | 0 | 16 | - 6.1 | 34 | 13 | 5 | 8 | 4 | 0 | 0 | 0.7 | 27 | 12.5 | 31 | 4 | 25 | 1 | 4 | 1.8 | 90 | | | |
| ELY | 2242 | 813.0 | 1014.5 | 22.2 | 0.6 | 11.7 | - 2.7 | 31.7 | 3 | - 8.9 | 25 | 0 | 16 | - 6.1 | 34 | 13 | 5 | 8 | 4 | 0 | 0 | 0.7 | 27 | 12.5 | 31 | 4 | 25 | 1 | 4 | 1.8 | 90 | | | |
| LAS VEGAS | 659 | 936.3 | 1011.3 | 33.3 | 17.2 | 25.1 | - 1.6 | 40.0 | 11 | 10.6 | 26 | 17 | 0 | - 4.4 | 16 | 0 | - 9 | 0 | 0 | 0 | 0 | 1.8 | 22 | 18.3 | SW | 5 | 24 | 3 | 1 | 1.3 | 100 | | | |
| RENO | 1342 | 860.6 | 1015.2 | 26.7 | 1.1 | 14.0 | - 0.9 | 33.9 | 10 | - 5.0 | 26 | 5 | 14 | 0.0 | 43 | 1 | - 6 | 1 | 0 | 0 | 0 | 0.5 | 28 | 18.8 | NW | 12 | 26 | 3 | 1 | 1.1 | 94 | | | |
| WINNEBOCA | 1311 | 875.0 | 1016.3 | 25.0 | 0.6 | 12.8 | - 2.0 | 31.7 | 30+ | - 9.4 | 14 | 0 | 13 | - 5.6 | 32 | 1 | - 7 | 1 | 2 | 0 | 0 | 0.8 | 31 | 12.1 | N | 4 | 22 | 3 | 5 | 2.5 | 82 | | | |
| NEW HAMPSHIRE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CONCORD | 134 | 1004.7 | 1017.3 | 22.2 | 9.4 | 15.9 | 0.7 | 33.3 | 22 | 1.1 | 12+ | 1 | 0 | 12.2 | 82 | 86 | - 2 | 26 | 11 | 2 | 0 | 0.7 | 28 | 12.5 | NW | 1 | 5 | 15 | 15 | 6.8 | 48 | | | |
| MILWAUKEE | 1939 | 845.9 | 1016.5 | 22.8 | 0.6 | 11.7 | - 2.7 | 31.7 | 3 | - 8.9 | 25 | 0 | 16 | - 6.1 | 34 | 13 | 5 | 8 | 4 | 0 | 0 | 0.7 | 27 | 12.5 | 31 | 4 | 25 | 1 | 4 | 1.8 | 90 | | | |
| NEW JERSEY | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ATLANTIC CITY | 20 | 1015.9 | 1018.4 | 26.7 | 14.4 | 20.8 | 1.2 | 33.9 | 23 | 5.0 | 30 | 6 | 0 | 15.0 | 74 | 10 | - 74 | 9 | 3 | 0 | 0 | 1.8 | 23 | 11.6 | 26 | 4 | 14 | 7 | 9 | 4.6 | 61 | | | |
| ATLANTIC CITY U | 3 | 1016.9 | 1017.8 | 26.1 | 16.7 | 21.4 | 1.8 | 34.4 | 23+ | 7.8 | 30+ | 5 | 0 | 14.4 | 67 | 12 | - 74 | 10 | 3 | 0 | 0 | 1.5 | 25 | 12.4 | 24 | 4 | 11 | 8 | 11 | 4.4 | 64 | | | |
| NEWARK | 2 | 1016.9 | 1017.8 | 26.1 | 16.7 | 21.4 | 1.8 | 34.4 | 23 | 7.2 | 29 | 6 | 0 | 14.4 | 67 | 20 | - 69 | 5 | 7 | 0 | 0 | 1.5 | 25 | 12.4 | 24 | 4 | 11 | 8 | 11 | 4.4 | 64 | | | |
| TRENTON U | 17 | 1016.9 | 1017.8 | 26.1 | 16.7 | 21.4 | 1.8 | 34.4 | 23 | 7.2 | 29 | 6 | 0 | 14.4 | 67 | 20 | - 69 | 5 | 7 | 0 | 0 | 1.5 | 25 | 12.4 | 24 | 4 | 11 | 8 | 11 | 4.4 | 64 | | | |
| NEW MEXICO | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ALBUQUERQUE | 1619 | 839.5 | 1013.2 | 27.2 | 12.2 | 19.7 | - 1.4 | 33.9 | 3 | 4.4 | 27+ | 4 | 1 | 5.0 | 44 | 20 | - 4 | 15 | 6 | 5 | 0 | 0.6 | 14 | 25.1 | E | 10 | 16 | 9 | 5 | 3.6 | 78 | | | |
| CLAYTON | 1515 | 839.5 | 1013.2 | 25.0 | 9.4 | 17.2 | - 1.7 | 33.3 | 3 | 0.0 | 26 | 5 | 1 | 5.0 | 44 | 20 | - 4 | 15 | 6 | 5 | 0 | 0.6 | 14 | 25.1 | E | 10 | 16 | 9 | 5 | 3.6 | 78 | | | |
| ROSELLE | 1191 | 839.5 | 1013.2 | 25.0 | 9.4 | 17.2 | - 1.7 | 33.3 | 3 | 0.0 | 26 | 5 | 1 | 5.0 | 44 | 20 | - 4 | 15 | 6 | 5 | 0 | 0.6 | 14 | 25.1 | E | 10 | 16 | 9 | 5 | 3.6 | 78 | | | |
| NEW YORK | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ALBANY | 84 | 1006.8 | 1017.5 | 23.9 | 11.1 | 17.4 | 0.9 | 32.8 | 22 | 3.9 | 30+ | 1 | 0 | 11.7 | 71 | 96 | 5 | 35 | | | | | | | | | | | | | | | | |

METRIC UNITS

See footnotes at end of table

CLIMATOLOGICAL DATA

METRIC UNITS

SEPTEMBER, 1970

| State and Station | Pressure | | | Temperature | | | | No. of days | | | | Precipitation | | | | Wind | | | | No of days
(sunrise to
sunset) | Sky cover, tenths
(sunrise to sunset) | | | | | | | | | | | | |
|-------------------|--------------------|--------------|-----------|-----------------|-----------------|-----------------------|------|----------------------|------|--------------------|-------------------|---------------------------|-------|-----------------------|----------------------|----------------|----------------|--------------------|----------------------------|--------------------------------------|--|----------------------|-------|-----------|---------|------|------|------|----|-----|------|------|----|
| | Elevation (ground) | Station
Q | Sea level | Average | | Departure from normal | Date | Max 32.2 °C or above | | Min. 0 °C or lower | Average dew point | Average relative humidity | Total | Departure from normal | Greatest in 24 hours | 25 mm. or more | No. of
days | With thunderstorms | Maximum depth
on ground | | | Snow,
ice pellets | Speed | Direction | | | | | | | | | |
| | | | | Average maximum | Average minimum | | Date | Lowest | Date | | | | | | | | | | | | | | | | Highest | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | M. | Mb. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | Mm. | In. | Mm. | In. | Mm. | In. | Mm. | In. | Mp.s | Mph. | | | | | | | | | | | |
| SOUTH CAROLINA | 12 | 1016.9 | 1018.9 | 30.6 | 19.4 | 25.2 | 0.9 | 33.9 | 19.4 | 7.8 | 30.1 | 0 | 20.0 | 79 | 64 | -84 | 32 | 12 | 7 | 0 | 0 | 1.1 | 10 | 18.8V | NW | 5 | 10 | 16 | 4 | 4.4 | 65 | | |
| | CHARLESTON | 29.4 | 23.3 | 26.3 | 1.3 | 33.9 | 1 | 15.0 | 30.4 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 64 | | |
| | CHARLESTON U | 65 | 1010.8 | 1018.8 | 32.2 | 19.4 | 25.9 | 1.8 | 36.1 | 19 | 7.2 | 30 | 21 | 0 | 20.6 | 78 | 94 | -15 | 46 | 6 | 7 | 0 | 0.4 | 10 | 8.0 | 29 | 3 | 9 | 14 | 7 | 5.1 | | |
| | COLUMBIA | 292 | 985.1 | 1019.2 | 30.0 | 17.8 | 23.8 | 1.2 | 33.9 | 19 | 6.1 | 29 | 9 | 0 | 18.3 | 76 | 34 | -65 | 15 | 9 | 7 | 0 | 0 | 0.4 | 26 | 8.5 | 5W | 4 | 8 | 16 | 6 | 6.4 | |
| | GRNVILLE SPTNBRG | 395 | 966.5 | 1013.0 | 25.0 | 8.9 | 17.1 | 1.2 | 39.4 | 6 | 0.6 | 13 | 7 | 0 | 9.4 | 67 | 42 | 7 | 15 | 8 | 1 | 0 | 0 | 1.2 | 21 | 13.4 | 34 | 94 | 15 | 4 | 11 | 44.7 | |
| SOUTH DAKOTA | 390 | 967.2 | 1013.4 | 25.6 | 9.4 | 17.3 | 0.7 | 41.1 | 6 | -0.6 | 26 | 8 | 1 | 8.3 | 61 | 38 | - | 12 | 7 | 1 | 0 | 0 | 1.7 | 20 | 16.1 | 5W | 6 | 13 | 6 | 11 | 44.9 | | |
| | HURON | 23.3 | 6.7 | 15.1 | -1.4 | 37.2 | 1 | 34.2 | 9 | 0.0 | 26 | 5 | 3 | 9.4 | 67 | 80 | 13 | 31 | 11 | 3 | 0 | 0 | 1.2 | 20 | 15.0 | NW | 8 | 16 | 8 | 6 | 3.7 | | |
| | RAPID CITY | 432 | 963.1 | 1014.3 | 23.9 | 9.4 | 16.6 | 0.1 | 38.3 | 6 | 0.6 | 26 | 3 | 0 | 9.4 | 67 | 80 | 13 | 31 | 11 | 3 | 0 | 0 | 1.2 | 20 | 15.0 | NW | 7 | 14 | 6 | 10 | 4.7 | |
| | STIOUX FALLS | 459 | 965.8 | 1019.3 | 28.9 | 16.7 | 22.7 | 2.1 | 32.8 | 24.4 | 5.0 | 29 | 7 | 0 | 17.2 | 76 | 42 | -24 | 20 | 8 | 7 | 0 | 0 | 0.5 | 31 | 11.6 | 25 | 3 | 7 | 15 | 8 | 5.5 | |
| | BRISTOL | 203 | 993.6 | 1017.9 | 30.0 | 18.3 | 25.2 | 1.0 | 35.2 | 23.4 | 7.1 | 29 | 3 | 0 | 20.0 | 81 | 74 | -5 | 36 | 11 | 9 | 0 | 0 | 0.4 | 19 | 12.5 | NW | 3 | 7 | 15 | 8 | 5.4 | |
| TENNESSEE | 299 | 983.7 | 1018.3 | 29.4 | 20.9 | 25.5 | 1.7 | 32.2 | 23.4 | 7.2 | 29 | 3 | 0 | 18.3 | 75 | 70 | - | 5 | 28 | 7 | 0 | 0 | 0 | 0.6 | 29 | 10.7 | SW | 4 | 14 | 9 | 5.9 | 64 | |
| | KNOXVILLE | 79 | 1007.1 | 1017.2 | 31.1 | 18.0 | 24.9 | 2.2 | 34.4 | 28.4 | 10.6 | 29 | 17 | 0 | 18.3 | 68 | 97 | 25 | 41 | 6 | 6 | 0 | 1.6 | 29 | 13.0 | NW | 4 | 17 | 13 | 13 | 8.2 | | |
| | MEMPHIS | 180 | 995.9 | 1017.5 | 31.1 | 18.0 | 24.9 | 2.3 | 34.4 | 28.4 | 10.6 | 29 | 16 | 0 | 18.3 | 71 | 65 | -19 | 25 | 11 | 9 | 0 | 1.5 | 20 | 13.1 | SE | 6 | 14 | 12 | 11 | 8.1 | | |
| | NASHVILLE | 180 | 995.9 | 1017.5 | 31.1 | 18.0 | 24.9 | 2.3 | 34.4 | 28.4 | 10.6 | 29 | 16 | 0 | 18.3 | 71 | 65 | -19 | 25 | 11 | 9 | 0 | 1.5 | 20 | 13.1 | SE | 6 | 14 | 12 | 11 | 8.1 | | |
| | DOAK RIDGE R | 276 | 982.2 | 1015.3 | 30.6 | 17.2 | 23.3 | 1.6 | 32.2 | 20 | 5.0 | 29 | 1 | 0 | 17.2 | 76 | 42 | -24 | 20 | 8 | 7 | 0 | 0 | 0.5 | 31 | 11.6 | 25 | 3 | 7 | 15 | 8 | 5.5 | |
| TEXAS | 537 | 953.9 | 1014.3 | 31.1 | 20.0 | 25.6 | 1.2 | 37.8 | 3 | 12.2 | 27 | 18 | 0 | 16.1 | 61 | 61 | 9 | 47 | 8 | 3 | 0 | 0 | 2.7 | 18 | 19.3 | SE | 22 | 11 | 9 | 10 | 5.2 | 67 | |
| | ABILENE | 1098 | 892.0 | 1012.9 | 28.9 | 14.4 | 21.6 | -0.5 | 37.8 | 3 | 2.2 | 26 | 12 | 0 | 9.4 | 52 | 9 | -39 | 5 | 1 | 0 | 0 | 2.1 | 19 | 17.0 | NE | 22 | 10 | 10 | 10 | 5.4 | 64 | |
| | AMARILLO | 182 | 993.2 | 1015.0 | 31.1 | 21.7 | 26.2 | 0.1 | 35.6 | 8 | 13.3 | 30.4 | 18 | 0 | 19.4 | 71 | 97 | 10 | 27 | 11 | 0 | 0 | 1.6 | 15 | 11.6 | NW | 23 | 5 | 15 | 10 | 6.2 | 59 | |
| | AUSTIN | 6 | 1012.9 | 1013.3 | 32.8 | 23.9 | 28.2 | 0.8 | 36.1 | 9 | 15.6 | 28.4 | 24 | 0 | 22.2 | 74 | 177 | 50 | 65 | 11 | 2 | 0 | 2.1 | 13 | 16.3 | SE | 12 | 4 | 11 | 15 | 6.9 | 56 | |
| | BROWN | 12 | 1012.5 | 1013.9 | 31.1 | 23.3 | 27.2 | 0.1 | 33.9 | 2 | 15.0 | 30 | 18 | 0 | 22.8 | 81 | 216 | 104 | 61 | 12 | 7 | 0 | 2.6 | 12 | 11.6 | SE | 13.4 | 4 | 14 | 12 | 6.6 | 57 | |
| UTAH | 147 | 998.0 | 1015.0 | 30.6 | 17.2 | 26.2 | 0.7 | 35.6 | 9.4 | 11.7 | 27 | 13 | 0 | 18.9 | 67 | 195 | 123 | 55 | 10 | 4 | 0 | 0 | 2.5 | 16 | 13.4 | SE | 16 | 9 | 11 | 10 | 5.6 | 62 | |
| | DALLAS | 313 | 978.0 | 1013.4 | 31.7 | 20.6 | 25.9 | -0.7 | 37.2 | 4 | 9.9 | 27 | 21 | 0 | 18.3 | 67 | 251 | 184 | 140 | 9 | 3 | 0 | 2.9 | 12 | 15.6 | SE | 31 | 23.4 | 6 | 14 | 10 | 5.6 | 73 |
| | DEL RIO | 1194 | 882.2 | 1011.5 | 30.0 | 16.7 | 23.4 | -0.2 | 36.7 | 9.4 | 7.8 | 28 | 16 | 0 | 9.4 | 45 | 256 | -3 | 13 | 8 | 3 | 0 | 1.2 | 16 | 13.2 | SW | 5 | 12 | 12 | 6 | 4.7 | 73 | |
| | EL PASO | 164 | 995.2 | 1015.3 | 30.6 | 21.1 | 25.7 | 0.1 | 35.0 | 8.4 | 12.8 | 27 | 13 | 0 | 20.6 | 76 | 159 | 94 | 13 | 8 | 0 | 0 | 2.0 | 17 | 11.2 | W | 15 | 1 | 1 | 1 | 5.5 | 65 | |
| | PORT WORTH | 29 | 1011.9 | 1015.5 | 28.9 | 24.4 | 26.7 | 0.1 | 30.6 | 21.4 | 16.1 | 28 | 0 | 0 | 21.1 | 80 | 158 | 55 | 39 | 10 | 10 | 0 | 0 | 1.4 | 12 | 13.4 | W | 15 | 4 | 11 | 15 | 6.8 | 50 |
| VERMONT | 153 | 997.3 | 1014.9 | 31.1 | 21.7 | 26.4 | 0.3 | 36.1 | 9.4 | 13.3 | 29 | 17 | 0 | 20.6 | 78 | 185 | 115 | 72 | 12 | 7 | 0 | 2.3 | 16 | 12.1 | SE | 16 | 12 | 9 | 12 | 9 | 5.4 | 65 | |
| | WICHITA FALLS | 303 | 978.3 | 1014.4 | 31.1 | 17.8 | 24.6 | -0.6 | 40.0 | 4.4 | 7.2 | 27 | 15 | 0 | 17.2 | 70 | 104 | 45 | 39 | 6 | 6 | 0 | 2.6 | 16 | 11.3 | W | 32 | 22 | 11 | 6 | 13 | 5.4 | 60 |
| | WICHITA FALLS | 303 | 978.3 | 1014.4 | 31.1 | 17.8 | 24.6 | -0.6 | 40.0 | 4.4 | 7.2 | 27 | 15 | 0 | 17.2 | 70 | 104 | 45 | 39 | 6 | 6 | 0 | 2.6 | 16 | 11.3 | W | 32 | 22 | 11 | 6 | 13 | 5.4 | 60 |
| | WICHITA FALLS | 303 | 978.3 | 1014.4 | 31.1 | 17.8 | 24.6 | -0.6 | 40.0 | 4.4 | 7.2 | 27 | 15 | 0 | 17.2 | 70 | 104 | 45 | 39 | 6 | 6 | 0 | 2.6 | 16 | 11.3 | W | 32 | 22 | 11 | 6 | 13 | 5.4 | 60 |
| | WICHITA FALLS | 303 | 978.3 | 1014.4 | 31.1 | 17.8 | 24.6 | -0.6 | 40.0 | 4.4 | 7.2 | 27 | 15 | 0 | 17.2 | 70 | 104 | 45 | 39 | 6 | 6 | 0 | 2.6 | 16 | 11.3 | W | 32 | 22 | 11 | 6 | 13 | 5.4 | 60 |
| UTAH | 1533 | 846.9 | 1015.3 | 25.6 | 5.0 | 15.1 | -2.2 | 33.3 | 1 | -2.2 | 26 | 4 | 0 | 2.2 | 48 | 34 | 23 | 34 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.6 | 88 |
| | MILFORD | 1286 | 872.3 | 1015.3 | 22.8 | 7.2 | 15.0 | -3.0 | 33.3 | 2 | -1.1 | 25 | 1 | 2 | 2.2 | 48 | 71 | 58 | 56 | 5 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.6 | 88 |
| | SALT LAKE CITY | 1291 | 871.3 | 1015.6 | 22.2 | 8.3 | 15.4 | -3.9 | 31.7 | 8.4 | 2.2 | 26 | 0 | 0 | 1 | -7 | 1 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.3 | 88 | |
| | MENDOVER | 1004.1 | 1016.6 | 20.6 | 10.6 | 15.6 | 0.9 | 38.0 | 22 | 5.6 | 28.4 | 0 | 0 | 0 | 11.1 | 77 | 100 | 16 | 49 | 15 | 5 | 0 | 0 | 1.1 | 21 | 12.1 | NW | 16 | 4 | 10 | 16 | 7.5 | 60 |
| | BURLINGTON | 1004.1 | 1016.6 | 20.6 | 10.6 | 15.6 | 0.9 | 38.0 | 22 | 5.6 | 28.4 | 0 | 0 | 0 | 11.1 | 77 | 100 | 16 | 49 | 15 | 5 | 0 | 0 | 1.1 | 21 | 12.1 | NW | 16 | 4 | 10 | 16 | 7.5 | 60 |
| VIRGINIA | 279 | 1018.0 | 1018.9 | 29.4 | 16.1 | 22.8 | 2.4 | 33.9 | 23 | 6.4 | 30 | 11 | 0 | 17.2 | 70 | 20 | -66 | 6 | 0 | 4 | 0 | 0 | 1.0 | 17 | 14.8 | W | 18 | 12 | 11 | 7 | 4.5 | 71 | |
| | LYNCHBURG | 279 | 1018.0 | 1018.9 | 29.4 | 16.1 | 22.8 | 2.4 | 33.9 | 23 | 6.4 | 30 | 11 | 0 | 17.2 | 70 | 20 | -66 | 6 | 0 | 4 | 0 | 1.0 | 17 | 14.8 | W | 18 | 12 | 11 | 7 | 4.5 | 71 | |
| | NORFOLK | 50 | 1012.5 | 1018.9 | 31.1 | 16.7 | 23.8 | 2.6 | 35.0 | 22 | 8.3 | 30 | 9 | 0 | 16.7 | 70 | 26 | -67 | 13 | 4 | 3 | 0 | 0 | 0.8 | 20 | 10.3 | NW | 18 | 12 | 11 | 9 | 5.0 | 73 |
| | RICHMOND | 350 | 977.3 | 1018.8 | 26.1 | 17.8 | 22.6 | 1.9 | 32.8 | 4 | 8.9 | 30.4 | 3 | 0 | 16.7 | 75 | 51 | -32 | 23 | 5 | 3 | 0 | 0 | 0.7 | 25 | 13.0 | SE | 4 | 11 | 14 | 5 | 4.5 | 73 |
| | WALLOPS ISLAND | 3 | 985.1 | 1019.2 | 30.0 | 17.8 | 23.8 | 1.2 | 33.9 | 19 | 6.1 | 29 | 9 | 0 | 18.3 | 76 | 34 | -65 | 15 | 9 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4.5 | 73 |
| WASHINGTON | 59 | 1011.2 | 1018.4 | 19.4 | 6.1 | 12.8 | -1.9 | 27.8 | 27 | -2.8 | 13 | 0 | 3 | 7.8 | 77 | 81 | 28 | 21 | 11 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6.0 | 50 |
| | OLYMPIA | 55 | 1010.8 | 1018.5 | 18.3 | 7.2 | 12.7 | -1.3 | 28.9 | 27 | 0.0 | 13 | 0 | 1 | 7.8 | 77 | 183 | 64 | 39 | 13 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6.3 | 50 |
| | QUILLAYUTE | 122 | 1002.0 | 1018.3 | 18.9 | 10.6 | 14.8 | -0.7 | 29.4 | 27 | 5.0 | 13 | 0 | 0 | 6.7 | 67 | 57 | 5 | 4 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5.1 | 51 | |
| | SEATTLE TACOMA | 718 | 993.0 | 1016.8 | 19.4 | 5.6 | 12.3 | -3.7 | 27.2 | 29 | -2.2 | 24 | 0 | 4 | 0.6 | 49 | 12 | - | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4.9 | 66 | |
| | STAMPEDE PASS R | 1206 | 881.1 | 1016.8 | 11.7 | 4.4 | 8.2 | -2.9 | 21.7 | 29 | -1.1 | 24 | 0 | 2 | 142 | 31 | 13 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6.6 | 66 |

See footnotes at end of table

CLIMATOLOGICAL DATA

METRIC UNITS

SEPTEMBER 1970

| State and Station | Elevation (ground) | Pressure | | Temperature | | | | | | | | | | Precipitation | | | | | | Wind | | | No. of days (sunrise to sunset) | | Possible sunshine | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | | Station Q | Sea level | Average maximum | | Average minimum | | Departure from normal | | Highest | | Date | | Lowest | | Date | | Average dew point | | Average relative humidity | | Total | | Departure from normal | | Greatest in 24 hours | | No. of days | | Snow, ic pellets | | Maximum depth on ground | | Resultant speed | | Resultant direction | | Fastest mile (1.6 kilometers) | | Direction | | Date | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. 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| C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. |

Data from airport unless otherwise specified. U indicates Urban, R indicates Rural, sites.

Precipitation data in column headed "Greatest in 24 hours" are computed on a 24-hour basis without regard to calendar day - data may include precipitation with a measurable amount from the last day of the previous month or the first day of the following month.

Wind directions under resultant direction are in tens of degrees.

Value entered in column "Fastest Mile" is the highest observed 1-minute wind speed when the direction is in tens of degrees. These stations are not equipped with a recording anemometer from which "Fastest Mile" data can be evaluated.

B Number of days maximum 21.1°C. or above for Alaskan Stations.

Y Peak Gust.

+ And also on an earlier date or dates.

Ø Station pressures apply to elevations shown in the "Elevations - Station Pressure" table of the annual issue of this publication. Data in this table are obtained by conversion from data in the English Units table.

HEATING DEGREE DAYS

(Base 65°F.)

SEPTEMBER 1970

| State and station | Current season | | Normal | July through this month | State and station | Current season | | Normal | July through this month | State and station | Current season | | Normal | July through this month | State and station | Current season | | Normal | July through this month |
|---------------------|----------------|--------------------------------|--------|-------------------------|---------------------|----------------|--------------------------------|--------|-------------------------|---------------------|----------------|--------------------------------|--------|-------------------------|-------------------|----------------|--------------------------------|--------|-------------------------|
| | This month | Period July through this month | | | | This month | Period July through this month | | | | This month | Period July through this month | | | | This month | Period July through this month | | |
| ALABAMA | | | | | IDAHO | | | | | NEBRASKA | | | | | TENNESSEE | | | | |
| BIRMINGHAM | 10 | 10 | 6 | | BOISE | 240 | 240 | 132 | | GRAND ISLAND | 146 | 146 | 114 | | BRISTOL | 26 | 26 | 51 | |
| HUNTSVILLE | 10 | 10 | 12 | | LEWISTON | 217 | 220 | 123 | | LINCOLN U | 108 | 109 | 81 | | CHATTANOOGA | 13 | 13 | 18 | |
| MOBILE | 0 | 0 | 0 | | POCATELLO | 333 | 339 | 172 | | NORFOLK | 165 | 172 | 120 | | KNOXVILLE | 13 | 13 | 30 | |
| MONTGOMERY | 1 | 1 | 0 | | ILLINOIS | | | | | NORTH PLATTE | 214 | 217 | 129 | | MEMPHIS | 7 | 7 | 18 | |
| ALASKA | | | | | CAIRO U | 11 | 11 | 26 | | OMAHA | 105 | 105 | 96 | | NASHVILLE | 13 | 13 | 30 | |
| ANCHORAGE | 552 | 1103 | 1003 | | CHICAGO O HARE | 85 | 87 | 129 | | SCOTT'S BLUFF | 261 | 261 | 138 | | OAK RIDGE R | 19 | 19 | 39 | |
| ANNETTE | 367 | 864 | 777 | | CHICAGO MIDWAY | 79 | 83 | 81 | | VALENTINE | 204 | 205 | 186 | | TEXAS | | | | |
| BARROW | 1173 | 2929 | 2678 | | PEORIA | 84 | 89 | 93 | | NEVADA | | | | | ABILENE | 15 | 15 | 0 | |
| BARTER ISLAND | 1132 | 2685 | 2497 | | ROCKFORD | 117 | 124 | 129 | | ELY | 357 | 363 | 268 | | AMARILLO | 47 | 47 | 18 | |
| BETHEL | 707 | 1552 | 1325 | | SPRINGFIELD | 41 | 42 | 72 | | LAS VEGAS | 0 | 0 | 0 | | AUSTIN | 3 | 3 | 0 | |
| BETTES | 972 | 1569 | | | INDIANA | | | | | RENO | 234 | 234 | 334 | | BROWNSVILLE | 1 | 1 | 0 | |
| BIG DELTA | 812 | 1296 | | | EVANSVILLE | 24 | 26 | 66 | | WINNEMUCCA | 295 | 295 | 244 | | CORPUS CHRISTI | 2 | 2 | 0 | |
| COLD BAY | 518 | 1406 | 1424 | | FORT WAYNE | 71 | 81 | 114 | | NEW HAMPSHIRE | | | | | DALLAS | 10 | 10 | 0 | |
| FAIRBANKS | 722 | 1062 | 1145 | | HOLINE | 92 | 94 | 108 | | CONCORD | 181 | 210 | 233 | | DEL RIO | 24 | 24 | | |
| GULKANA | 758 | 1508 | | | INDIANAPOLIS | 55 | 55 | 90 | | MT WASHINGTON OBS | 713 | 1648 | 1749 | | EL PASO | 39 | 39 | | |
| HOMER | 593 | 1430 | | | SOUTH BEND | 93 | 122 | 117 | | ATLANTIC CITY | 49 | 49 | 39 | | FORT WORTH | 7 | 7 | 0 | |
| JUNEAU | 553 | 1345 | 1122 | | IOWA | | | | | ATLANTIC CITY U | 33 | 33 | 29 | | GALVESTON U | 0 | 0 | 0 | |
| KING SALMON | 602 | 1380 | 1148 | | BURLINGTON | 87 | 92 | 93 | | NEWARK | 24 | 24 | 39 | | HOUSTON | 0 | 0 | 0 | |
| KOTZEBUE | 860 | 1646 | 1550 | | DES MOINES | 100 | 100 | 108 | | TRENTON U | 30 | 30 | 57 | | LUBBOCK | 50 | 50 | 18 | |
| MC GRATH | 757 | 1378 | 1179 | | DUBUQUE | 140 | 152 | 199 | | NEW MEXICO | | | | | MIDLAND | 41 | 41 | 0 | |
| NOME | 841 | 1839 | 1670 | | SIOUX CITY | 148 | 152 | 117 | | ALBUQUERQUE | 58 | 58 | 12 | | PORT ARTHUR | 0 | 0 | 0 | |
| ST. PAUL ISLAND | 624 | 1833 | 1756 | | WATERLOO | 175 | 196 | 164 | | CLAYTON | 151 | 157 | 72 | | SAN ANGELO | 26 | 26 | 0 | |
| SHENYA | 497 | 1615 | 1553 | | KANSAS | | | | | ROSWELL | 56 | 56 | 18 | | SAN ANTONIO | 1 | 1 | 0 | |
| SUMMIT | 865 | 1903 | | | CONCORDIA | 102 | 103 | 57 | | ALBANY | 127 | 137 | 157 | | VICTORIA | 0 | 0 | 0 | |
| TALKEETNA | 651 | 1298 | 1109 | | DODGE CITY | 85 | 89 | 33 | | BINGHAMTON | 179 | 230 | 288 | | WICHITA FALLS | 20 | 20 | 0 | |
| UNALAKLEET | 793 | 1589 | | | GOODLAND | 174 | 180 | 87 | | BUFFALO | 93 | 105 | 197 | | UTAH | | | | |
| YAKUTAT | 522 | 1248 | 1159 | | TOPEKA | 57 | 57 | 33 | | NEW YORK U | 27 | 27 | 30 | | MILFORD | 215 | 215 | 99 | |
| ARIZONA | | | | | WICHITA | 64 | 65 | 33 | | NEW YORK KENNEDY | 25 | 25 | 36 | | SALT LAKE CITY | 218 | 218 | 81 | |
| FLAGSTAFF | 310 | 332 | 315 | | KENTUCKY | | | | | NEW YORK LA GUARDIA | 26 | 26 | 27 | | WENDOVER | 195 | 195 | 48 | |
| PHOENIX | 0 | 0 | 0 | | COVINGTON | 28 | 32 | 75 | | ROCHESTER | 126 | 140 | 166 | | VERMONT | | | | |
| TUCSON | 0 | 0 | 0 | | LEXINGTON | 31 | 37 | 54 | | SYRACUSE | 150 | 184 | 166 | | BURLINGTON | 174 | 220 | 300 | |
| WINSLOW | 84 | 84 | 6 | | LOUISVILLE | 23 | 23 | 54 | | ASHVILLE | 29 | 29 | 75 | | VIRGINIA | | | | |
| YUMA | 0 | 0 | 0 | | LOUISIANA | | | | | CAPE HATTERAS R | 10 | 10 | 0 | | LYNCHBURG | 21 | 21 | 51 | |
| ARKANSAS | | | | | ALEXANDRIA | 0 | 0 | 0 | | CHARLOTTE | 12 | 12 | 6 | | NORFOLK | 16 | 16 | 0 | |
| FORT SMITH | 10 | 10 | 12 | | BATON ROUGE | 0 | 0 | 0 | | GREENSBORO | 19 | 20 | 33 | | RICHMOND | 12 | 12 | 36 | |
| LITTLE ROCK | 4 | 4 | 9 | | LAKE CHARLES | 0 | 0 | 0 | | RALEIGH | 22 | 22 | 21 | | ROANOKE | 24 | 26 | 51 | |
| CALIFORNIA | | | | | NEW ORLEANS | 0 | 0 | 0 | | WILMINGTON | 10 | 10 | 0 | | WALLOPS ISLAND | 19 | 19 | | |
| BAKERSFIELD | 0 | 0 | 0 | | SHREVEPORT | 0 | 0 | 0 | | WYOMING | | | | | WASHINGTON | | | | |
| BISHOP | 59 | 59 | 42 | | MAINE | | | | | OLYMPIA | 293 | 460 | 337 | | QUILLAYUTE | 298 | 703 | 568 | |
| BLUE CANYON | 115 | 116 | 204 | | CARIBOU | 328 | 425 | 529 | | SEATTLE TACOMA | 190 | 287 | 280 | | SPOKANE | 321 | 339 | 202 | |
| EUREKA U | 274 | 874 | 785 | | PORTLAND | 159 | 180 | 260 | | STAMPEDE PASS R | 541 | 1067 | 957 | | WALLA WALLA U | 158 | 158 | 87 | |
| FRESNO | 0 | 0 | 0 | | MARYLAND | | | | | YAKIMA | 221 | 239 | 156 | | WEST VIRGINIA | | | | |
| LONG BEACH | 0 | 0 | 12 | | BALTIMORE | 20 | 20 | 48 | | BECKLEY | 58 | 87 | 155 | | CHARLESTON | 40 | 43 | 63 | |
| LOS ANGELES | 5 | 6 | 71 | | MASSACHUSETTS | | | | | ELKINS | 97 | 137 | 169 | | ELKINS | 28 | 12 | 63 | |
| LOS ANGELES U | 0 | 0 | 6 | | BLUE HILL OBS P | 123 | 128 | 130 | | HUNTINGTON | 33 | 35 | 60 | | PARKERSBURG U | 33 | 35 | 60 | |
| MT SHASTA R | 197 | 217 | 182 | | BOSTON | 68 | 68 | 69 | | WISCONSIN | | | | | GREEN BAY | 185 | 219 | 252 | |
| OAKLAND | 41 | 257 | 148 | | WORCESTER | 174 | 188 | 187 | | CLEVELAND | 86 | 107 | 116 | | LA CROSSE | 173 | 188 | 184 | |
| RED BLUFF | 0 | 0 | 0 | | MICHIGAN | | | | | COLUMBUS | 58 | 68 | 90 | | MADISON | 196 | 242 | 239 | |
| SACRAMENTO | 4 | 4 | 12 | | ALPENA | 230 | 321 | 446 | | DAYTON | 48 | 53 | 84 | | MILWAUKEE | 145 | 159 | 264 | |
| SAN DIEGO | 0 | 0 | 21 | | DETROIT | 78 | 83 | 87 | | MANSFIELD | 53 | 59 | 145 | | WYOMING | | | | |
| SAN FRANCISCO | 59 | 268 | 219 | | DETROIT METRO | 108 | 124 | 122 | | TOLEDO | 118 | 143 | 133 | | CASPER | 32 | 323 | 214 | |
| SAN FRANCISCO U | 95 | 572 | 468 | | FLINT | 151 | 196 | 165 | | YOUNGSTOWN | 101 | 140 | 145 | | CHEYENNE | 302 | 310 | 260 | |
| SANTA MARIA | 144 | 384 | 288 | | GRAND RAPIDS | 150 | 180 | 170 | | OKLAHOMA | | | | | LANDER | 357 | 360 | 229 | |
| STOCKTON | 0 | 0 | 6 | | HOUGHTON LAKE | 225 | 309 | 382 | | OKLAHOMA CITY | 18 | 18 | 15 | | SHERIDAN | 342 | 354 | 275 | |
| COLORADO | | | | | LANSING | 159 | 216 | 164 | | TULSA | 18 | 18 | 18 | | | | | | |
| ALAMOSA | 368 | 419 | 443 | | MARQUETTE J | 224 | 317 | 380 | | OREGON | | | | | | | | | |
| COLORADO SPRINGS | 235 | 240 | 166 | | MUSKEGON | 146 | 175 | 160 | | ASTORIA | 264 | 576 | 486 | | | | | | |
| DENVER | 198 | 198 | 132 | | SAULT STE MARIE | 301 | 463 | 483 | | BURNS U | 357 | 375 | 259 | | | | | | |
| GRAND JUNCTION | 93 | 93 | 30 | | MINNESOTA | | | | | EUGENE | 135 | 157 | 197 | | | | | | |
| PUEBLO | 105 | 105 | 54 | | DULUTH | 311 | 416 | 510 | | MEACHAM | 456 | 579 | 496 | | | | | | |
| CONNECTICUT | | | | | INTERNATIONAL FALLS | 314 | 401 | 546 | | MEDFORD | 89 | 89 | 78 | | | | | | |
| BRIDGEPORT | 49 | 49 | 66 | | MINNEAPOLIS | 190 | 198 | 242 | | PENDLETON | 260 | 261 | 111 | | | | | | |
| HARTFORD | 89 | 89 | 105 | | ROCHESTER | 205 | 233 | 245 | | PORTLAND | 130 | 158 | 167 | | | | | | |
| DELAWARE | | | | | ST CLOUD | 231 | 259 | 300 | | SALEM | 195 | 273 | 179 | | | | | | |
| WILMINGTON | 25 | 25 | 51 | | MISSISSIPPI | | | | | SEXTON SUMMIT R | 270 | 357 | 331 | | | | | | |
| FLORIDA | | | | | JACKSON | 0 | 0 | 0 | | PENNSYLVANIA | | | | | | | | | |
| APALACHICOLA U | 0 | 0 | 0 | | MERIDIAN | 1 | 1 | 0 | | ALLEN TOWN | 64 | 64 | 90 | | | | | | |
| DAYTONA BEACH | 0 | 0 | 0 | | MISSOURI | | | | | ERIE | 125 | 161 | 117 | | | | | | |
| FORT MYERS | 0 | 0 | 0 | | COLUMBIA REGIONAL | 37 | 37 | 54 | | HARRISBURG | 39 | 39 | 63 | | | | | | |
| JACKSONVILLE | 0 | 0 | 0 | | KANSAS CITY | 25 | 25 | 35 | | PHILADELPHIA | 29 | 29 | 60 | | | | | | |
| KEY WEST | 0 | 0 | 0 | | ST JOSEPH | 42 | 42 | 66 | | PITTSBURGH | 69 | 75 | 114 | | | | | | |
| LAKELAND U | 0 | 0 | 0 | | ST LOUIS | 24 | 24 | 60 | | PITTSBURGH U | 45 | 48 | 80 | | | | | | |
| MIAMI | 0 | 0 | 0 | | SPRINGFIELD | 28 | 36 | 45 | | SCRANTON | 109 | 116 | 151 | | | | | | |
| ORLANDO | 0 | 0 | 0 | | MONTANA | | | | | WILLIAMSPORT | 56 | 56 | 120 | | | | | | |
| PENSACOLA | 0 | 0 | 0 | | BILLINGS | 296 | 297 | 207 | | RHODE ISLAND | | | | | | | | | |
| TALLAHASSEE | 1 | 1 | 0 | | GLASGOW | 296 | 308 | 348 | | BLOCK ISLAND | 102 | 102 | 112 | | | | | | |
| TAMPA | 0 | 0 | 0 | | GREAT FALLS | 319 | 336 | 339 | | SOUTH CAROLINA | | | | | | | | | |
| WEST PALM BEACH | 0 | 0 | 0 | | HAYRE | 304 | 333 | 387 | | CHARLESTON | 11 | 11 | 0 | | | | | | |
| DIST. OF COLUMBIA | | | | | HELENA | 413 | 447 | 384 | | CHARLESTON U | 0 | 0 | 0 | | | | | | |
| WASHINGTON DULLES | 46 | 46 | | | KALISPELL | 478 | 588 | 470 | | COLUMBIA | 6 | 6 | 0 | | | | | | |
| WASHINGTON NATIONAL | 17 | 17 | 33 | | MILES CITY | 259 | 259 | 186 | | GRNVLLE SPRTNBGR | 10 | 10 | 9 | | | | | | |
| GEORGIA | | | | | MISSOULA | 425 | 469 | 421 | | SOUTH DAKOTA | | | | | | | | | |
| ATHENS | 5 | 5 | 12 | | | | | | | ABERDEEN | 187 | 207 | 214 | | | | | | |
| ATLANTA | 3 | 3 | 18 | | | | | | | HURON | 181 | 190 | 186 | | | | | | |
| AUGUSTA | 12 | 12 | 0 | | | | | | | RAPID CITY | 245 | 247 | 194 | | | | | | |
| COLUMBUS | 0 | 0 | 0 | | | | | | | SILOUX FALLS | 195 | 214 | 212 | | | | | | |
| MACON | 0 | 0 | 0 | | | | | | | | | | | | | | | | |
| ROME | 10 | 10 | 24 | | | | | | | | | | | | | | | | |
| SAVANNAH | 1 | 1 | 6 | | | | | | | | | | | | | | | | |

Data from airport unless otherwise specified.<

COOLING DEGREE DAYS

(Base 65°F.)

SEPTEMBER 1970

| State and station | Current season | | Normals January through this month | | State and station | Current season | | Normals January through this month | | State and station | Current season | | Normals January through this month | | State and station | Current season | | Normals January through this month | |
|---------------------|----------------|-----------------------------------|------------------------------------|--|---------------------|----------------|-----------------------------------|------------------------------------|--|---------------------|----------------|-----------------------------------|------------------------------------|--|-------------------|----------------|-----------------------------------|------------------------------------|--|
| | This month | Period January through this month | | | | This month | Period January through this month | | | | This month | Period January through this month | | | | This month | Period January through this month | | |
| ALABAMA | | | | | HAWAII | | | | | NEBRASKA | | | | | SOUTH DAKOTA | | | | |
| BIRMINGHAM | 377 | 1975 | | | HIL | 303 | 2269 | | | NORTH PLATTE | 96 | 944 | | | ABERDEEN | 127 | 770 | | |
| HUNTSVILLE | 385 | 1792 | | | HONOLULU | 429 | 3849 | | | OMAHA | 148 | 1385 | | | HURON | 136 | 896 | | |
| MOBILE | 505 | 2691 | | | KAHULUI | 397 | 3016 | | | SCOTTSBLUFF | 37 | 660 | | | RAPID CITY | 78 | 708 | | |
| MONTGOMERY | 434 | 2205 | | | LIHUE | 455 | 3220 | | | VALENTINE | 108 | 994 | | | SIoux FALLS | 108 | 861 | | |
| ALASKA | | | | | IDAHO | | | | | NEVADA | | | | | TENNESSEE | | | | |
| ANCHORAGE | 0 | 0 | | | BOISE | 30 | 953 | | | ELKO | 2 | 378 | | | BRISTOL | 270 | 1311 | | |
| ANNETTE | 0 | 3 | | | LEWISTON | 19 | 929 | | | ELY | 0 | 230 | | | CHATTANOOGA | 337 | 1714 | | |
| BARROW | 0 | 0 | | | POCATELLO | 4 | 522 | | | LAS VEGAS | 371 | 2852 | | | KNOXVILLE | 326 | 1590 | | |
| BARTER ISLAND | 0 | 0 | | | ILLINOIS | | | | | RENO | 7 | 579 | | | MEMPHIS | 400 | 2105 | | |
| BETHEL | 0 | 0 | | | CAIRO U | 338 | 1867 | | | WINNEMUCCA | 0 | 596 | | | NASHVILLE | 374 | 1690 | | |
| BETTLES | 0 | 2 | | | CHICAGO O HARE | 96 | 946 | | | NEW HAMPSHIRE | | | | | OAK RIDGE R | 291 | 1419 | | |
| BIG DELTA | 0 | 2 | | | CHICAGO MIDWAY | 123 | 1151 | | | CONCORD | 56 | 483 | | | TEXAS | | | | |
| COLD BAY | 0 | 1 | | | MO LINE | 105 | 1051 | | | MT WASHINGTON OBS | 0 | 0 | | | ABILENE | 411 | 2354 | | |
| FAIRBANKS | 0 | 22 | | | PEORIA | 109 | 966 | | | ATLANTIC CITY | 187 | 950 | | | AMARILLO | 231 | 1689 | | |
| GULKANA | 0 | 2 | | | ROCKFORD | 79 | 801 | | | ATLANTIC CITY U | 141 | 871 | | | AUSTIN | 423 | 2345 | | |
| HOMER | 0 | 0 | | | SPRINGFIELD | 174 | 1215 | | | NEWARK | 201 | 1257 | | | BROWNSVILLE | 540 | 3226 | | |
| JUNEAU | 0 | 0 | | | INDIANA | | | | | TRENTON U | 201 | 1175 | | | CORPUS CHRISTI | 485 | 2793 | | |
| KING SALMON | 0 | 0 | | | EVANSVILLE | 286 | 1378 | | | NEW MEXICO | | | | | DALLAS | 437 | 2714 | | |
| KOTZEBU | 0 | 3 | | | FORT WAYNE | 134 | 957 | | | ALBUQUERQUE | 141 | 1358 | | | DEL RIO | 443 | 2722 | | |
| MC GRATH | 0 | 0 | | | INDIANAPOLIS | 182 | 1162 | | | CLAYTON | 95 | 860 | | | EL PASO | 321 | 2164 | | |
| NOME | 0 | 0 | | | SOUTH BEND | 82 | 747 | | | ROSWELL | 244 | 1604 | | | FORT WORTH | 409 | 2446 | | |
| ST. PAUL ISLAND | 0 | 0 | | | IOWA | | | | | NEW YORK | | | | | GALVESTON U | 456 | 2553 | | |
| SHEMYA | 0 | 0 | | | BURLINGTON | 101 | 979 | | | ALBANY | 83 | 623 | | | HOUSTON INTERCON | 423 | 2366 | | |
| SUMMIT | 0 | 0 | | | DES MOINES | 123 | 1171 | | | BINGHAMTON | 52 | 373 | | | LUBBOCK | 249 | 1713 | | |
| TALKEETNA | 0 | 0 | | | DUBUQUE | 70 | 739 | | | BUFFALO | 72 | 587 | | | MIDLAND | 301 | 1941 | | |
| UNALAKLEET | 0 | 0 | | | SIoux CITY | 121 | 1153 | | | NEW YORK U | 207 | 1274 | | | PORT ARTHUR | 518 | 2835 | | |
| YAKUTAT | 0 | 0 | | | WATERLOO | 86 | 797 | | | NEW YORK KENNEDY | 182 | 1159 | | | SAN ANGELO | 432 | 2465 | | |
| ARIZONA | | | | | KANSAS | | | | | NEW YORK LA GUARDIA | 196 | 1209 | | | SAN ANTONIO | 493 | 2707 | | |
| FLAGSTAFF | 1 | 208 | | | CONCORDIA | 153 | 1525 | | | ROCHESTER | 69 | 691 | | | VICTORIA | 452 | 2639 | | |
| PHOENIX | 527 | 3552 | | | DODGE CITY | 187 | 1685 | | | SYRACUSE | 51 | 442 | | | WACO | 447 | 2701 | | |
| TUCSON | 347 | 2584 | | | GOODLAND | 103 | 1095 | | | NORTH CAROLINA | | | | | WICHITA FALLS | 365 | 2388 | | |
| WINSLOW | 112 | 1239 | | | TOPEKA | 188 | 1508 | | | ASHEVILLE | 206 | 994 | | | UTAH | | | | |
| YUMA | 590 | 3639 | | | WICHITA | 212 | 1826 | | | CAPE HATTERAS R | 313 | 1576 | | | MILFORD | 46 | 846 | | |
| ARKANSAS | | | | | KENTUCKY | | | | | CHARLOTTE | 346 | 1721 | | | SALT LAKE CITY | 46 | 993 | | |
| FORT SMITH | 374 | 2180 | | | COVINGTON | 292 | 1352 | | | GREENSBORO | 264 | 1589 | | | WENDOVER | 43 | 1161 | | |
| LITTLE ROCK | 404 | 2125 | | | LEXINGTON | 266 | 1229 | | | RALEIGH | 278 | 1345 | | | VERMONT | | | | |
| CALIFORNIA | | | | | LOUISVILLE | 283 | 1399 | | | WILMINGTON | 370 | 1953 | | | BURLINGTON | 36 | 461 | | |
| BAKERSFIELD | 385 | 2523 | | | LOUISIANA | | | | | NORTH DAKOTA | | | | | VIRGINIA | | | | |
| BISHOP | 66 | 1138 | | | ALEXANDRIA | 389 | 2119 | | | BISMARCK | 60 | 555 | | | LYNCHBURG | 271 | 1263 | | |
| BLUE CANYON | 55 | 536 | | | BATON ROUGE | 435 | 2442 | | | FARGO | 95 | 656 | | | NORFOLK | 311 | 1560 | | |
| EUREKA U | 1 | 2 | | | LAKE CHARLES | 463 | 2558 | | | WILLISTON | 34 | 580 | | | RICHMOND | 313 | 1689 | | |
| FRESNO | 245 | 1849 | | | NEW ORLEANS | 460 | 2484 | | | OHIO | | | | | ROANOKE | 261 | 1299 | | |
| LONG BEACH | 224 | 1038 | | | SHREVEPORT | 492 | 2457 | | | AKRON | 146 | 835 | | | WALLOPS ISLAND | 229 | 1103 | | |
| LOS ANGELES | 139 | 481 | | | MAINE | | | | | CINCINNATI OBS | 263 | 1302 | | | WASHINGTON | 0 | 89 | | |
| LOS ANGELES U | 287 | 1271 | | | CARIBOU | 1 | 331 | | | CLEVELAND | 121 | 822 | | | OLYMPIA | 0 | 16 | | |
| MT SHASTA R | 9 | 378 | | | PORTLAND | 41 | 408 | | | COLUMBUS | 179 | 1010 | | | QUILLAYUTE | 0 | 161 | | |
| OAKLAND | 68 | 141 | | | MARYLAND | | | | | DAYTON | 185 | 1163 | | | SPOKANE | 2 | 576 | | |
| RED BLUFF | 321 | 1998 | | | BALTIMORE | 291 | 1454 | | | MANSFIELD | 184 | 1008 | | | STAMPEDE PASS R | 0 | 47 | | |
| SACRAMENTO | 245 | 1275 | | | MASSACHUSETTS | | | | | TOLEDO | 107 | 699 | | | WALLA WALLA U | 25 | 1033 | | |
| SANDBERG R | 128 | 1083 | | | BLUE HILL OBS R | 58 | 593 | | | YOUNGSTOWN | 112 | 639 | | | YAKIMA | 3 | 603 | | |
| SAN DIEGO | 145 | 628 | | | BOSTON | 91 | 801 | | | OKLAHOMA | | | | | WEST INDIES | | | | |
| SAN FRANCISCO | 77 | 167 | | | WORCESTER | 50 | 510 | | | OKLAHOMA CITY | 328 | 2020 | | | SWAN ISLAND | 523 | 4159 | | |
| SAN FRANCISCO U | 82 | 132 | | | MICHIGAN | | | | | TULSA | 307 | 2122 | | | WEST VIRGINIA | | | | |
| SANTA MARIA | 43 | 81 | | | ALPENA | 26 | 353 | | | OREGON | | | | | BECKLEY | 131 | 595 | | |
| STOCKTON | 274 | 1485 | | | DETROIT | 117 | 997 | | | ASTORIA | 1 | 8 | | | CHARLESTON | 197 | 1218 | | |
| COLORADO | | | | | DETROIT METRO | 100 | 813 | | | BURNS U | 0 | 427 | | | ELKINS | 75 | 366 | | |
| ALAMOSA | 0 | 95 | | | FLINT | 57 | 561 | | | EUGENE | 1 | 370 | | | HUNTINGTON | 265 | 1160 | | |
| COLORADO SPRINGS | 22 | 535 | | | GRAND RAPIDS | 55 | 667 | | | MEACHAM | 0 | 272 | | | PARKERSBURG U | 246 | 1241 | | |
| DENVER | 40 | 653 | | | HOUGHTON LAKE | 24 | 381 | | | MEDFORD | 28 | 849 | | | WISCONSIN | | | | |
| GRAND JUNCTION | 72 | 1499 | | | LANSING | 60 | 561 | | | PENDLETON | 4 | 772 | | | GREEN BAY | 50 | 581 | | |
| PUEBLO | 133 | 1457 | | | MARQUETTE U | 46 | 433 | | | PORTLAND | 8 | 392 | | | LA CROSSE | 71 | 840 | | |
| CONNECTICUT | | | | | MUSKEGON | 54 | 619 | | | SALEM | 0 | 256 | | | MADISON | 53 | 580 | | |
| BRIDGEPORT | 122 | 796 | | | SAULT STE MARIE | 7 | 164 | | | SEXTON SUMMIT R | 33 | 331 | | | MILWAUKEE | 60 | 709 | | |
| HARTFORD | 108 | 905 | | | MINNESOTA | | | | | PACIFIC AREA | | | | | WYOMING | | | | |
| DELAWARE | | | | | DULUTH | 30 | 344 | | | GUAM TAGUAC R | 428 | 3825 | | | CASPER | 24 | 535 | | |
| WILMINGTON | 244 | 1290 | | | INTERNATIONAL FALLS | 37 | 393 | | | JOHNSTON | 483 | 3998 | | | CHEYENNE | 11 | 403 | | |
| DIST. OF COLUMBIA | | | | | MINNEAPOLIS | 83 | 915 | | | KOROR R | 527 | 4742 | | | LANDER | 14 | 539 | | |
| WASHINGTON DULLES | 178 | 930 | | | ROCHESTER | 58 | 599 | | | KWAJALEIN | 506 | 4861 | | | SHERIDAN | 16 | 382 | | |
| WASHINGTON NATIONAL | 324 | 1702 | | | ST CLOUD | 61 | 656 | | | MAJUARO | 491 | 4539 | | | | | | | |
| FLORIDA | | | | | MISSISSIPPI | | | | | PAGO PAGO | 408 | 4187 | | | | | | | |
| APALACHICOLA U | 499 | 2598 | | | JACKSON | 460 | 2368 | | | PONAPE R | 442 | 4404 | | | | | | | |
| DAYTONA BEACH | 532 | 2874 | | | MERIDIAN | 432 | 2206 | | | TRUK MOEN ISLAND | 509 | 4674 | | | | | | | |
| FORT MYERS | 517 | 2857 | | | MISSOURI | | | | | WAKE | 561 | 4613 | | | | | | | |
| JACKSONVILLE | 496 | 2685 | | | COLUMBIA REGIONAL | 192 | 1276 | | | YAP R | 485 | 4533 | | | | | | | |
| KEY WEST | 506 | 3520 | | | KANSAS CITY | 232 | 1896 | | | PENNSYLVANIA | | | | | | | | | |
| LAKELAND U | 486 | 2724 | | | ST JOSEPH | 215 | 1785 | | | ALLENTOWN | 141 | 830 | | | | | | | |
| MIAMI | 522 | 3448 | | | ST LOUIS | 236 | 1502 | | | ERIE | 62 | 443 | | | | | | | |
| ORLANDO | 565 | 3096 | | | SPRINGFIELD | 255 | 1379 | | | HARRISBURG | 246 | 1232 | | | | | | | |
| PENSACOLA | 522 | 2685 | | | MONTANA | | | | | PHILADELPHIA | 247 | 1297 | | | | | | | |
| TALLAHASSEE | 454 | 2327 | | | BILLINGS | 28 | 719 | | | PITTSBURGH | 162 | 844 | | | | | | | |
| TAMPA | 514 | 2812 | | | GLASGOW | 28 | 655 | | | SCRANTON | 92 | 571 | | | | | | | |
| WEST PALM BEACH | 495 | 3059 | | | GREAT FALLS | 15 | 574 | | | WILLIAMSPORT | 136 | 810 | | | | | | | |
| GEORGIA | | | | | HAVRE | 23 | 509 | | | RHODE ISLAND | | | | | | | | | |
| ATHENS | 347 | 1851 | | | HELENA | 5 | 320 | | | BLOCK ISLAND | 55 | 461 | | | | | | | |
| ATLANTA | 371 | 1793 | | | KALISPELL | 1 | 194 | | | PROVIDENCE | 91 | 716 | | | | | | | |
| AUGUSTA | 360 | 1925 | | | MILES CITY | 60 | 977 | | | SOUTH CAROLINA | | | | | | | | | |
| COLUMBUS | 445 | 2272 | | | MISSOULA | 3 | 333 | | | CHARLESTON | 384 | 2221 | | | | | | | |
| MACON | 470 | 2362 | | | NEBRASKA | | | | | CHARLESTON U | 439 | 2385 | | | | | | | |
| ROME | 358 | 1742 | | | GRAND ISLAND | 132 | 1378 | | | COLUMBIA | 421 | 2368 | | | | | | | |
| SAVANNAH | 423 | 2330 | | | LINCOLN U | 146 | 1520 | | | GRNVILLE SPRING | 310 | 1668 | | | | | | | |
| | | | | | NORFOLK | 115 | 1150 | | | | | | | | | | | | |

Data from airport unless otherwise specified.
U indicates Urban, R indicates Rural, sites.

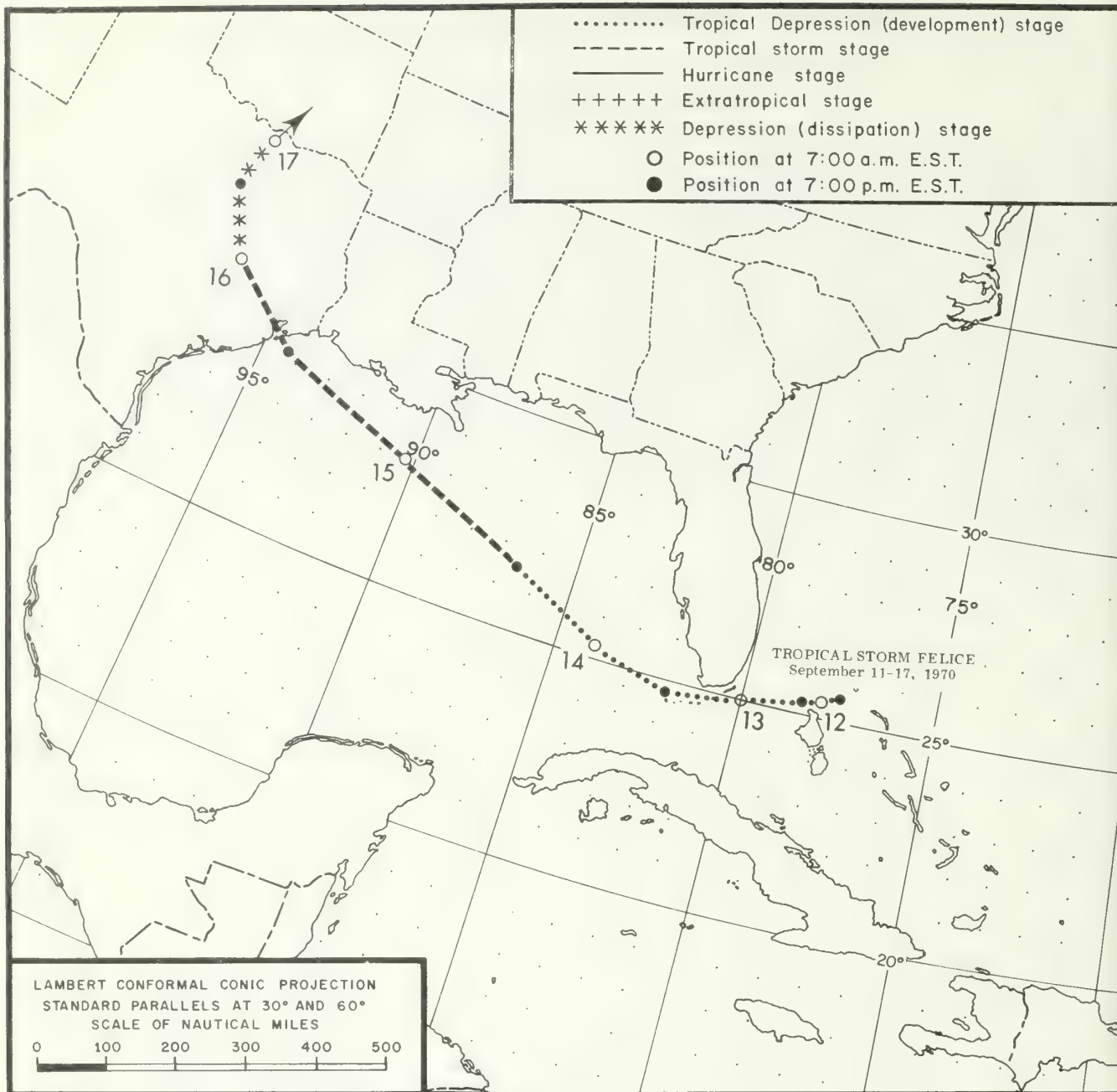
TROPICAL STORM FELICE, Sept. 11—17, 1970

Charles R. Condon
Environmental Data Service, NOAA

A weak depression formed slightly north of Nassau on the 11th from a trough of low pressure at upper levels which had been over the western Bahamas for several days. This depression drifted westward, passing near Key West and spreading badly needed rain across southern Florida on the 13th. After entering the Gulf of Mexico, the depression intensified rapidly and was upgraded to tropical storm Felice at 1:30 p.m. (CST) on the 14th. That night Felice continued her north-westward trek across the Gulf. About 6 a.m. on the 15th the poorly organized tropical storm developed a new center near 28°N., 90°W.; the old center to the southwest dissappeared shortly afterward. As Felice passed south of Louisiana-Texas border, a reconnaissance plane found a minimum sea-level pressure of 996 mb. (29.41 in.); at this time the maximum winds were estimated at 70 m.p.h.

Felice moved inland over High Island, a small com-

munity 30 miles northeast of Galveston, at about 8 p.m. on the 15th. Gilchrist, 5 miles southwest of High Island, estimated peak gusts of 70 m.p.h. and highest sustained winds of 60 m.p.h. from the east. A 43 m.p.h. sustained westerly wind was recorded at Galveston. The highest tide was 3.9 ft. above mean sea level at Cameron, La. High Island recorded a minimum sea-level pressure of 998 mb. (29.48 in.). The storm damage was insignificant; there were no casualties and no serious property or crop damage. Rainfall totaling 6.25 in. flooded a number of streets in Galveston, and rains from 2-6 in. accompanied Felice into south-central Texas. Felice lost her identity as a storm north of Gainesville, Texas, on the 17th. The remnants of Felice moved into Oklahoma, bringing some rainfall amounts in excess of 5 in. Justin, in north-central Texas, reported 6.32 in. of rain.



STORM SUMMARY

SEPTEMBER 1970

| STATE | TORNADOES | | | | | HAILSTORMS | | | | WINDSTORMS | | | | LIGHTNING | | | | # HEAVY SNOWSTORMS
AND BLIZZARDS | | | | # ICE STORMS | | | | ALL OTHER | | | |
|-------------------|-----------|------|--------|----------|--------|------------|----------|---------------|-------|------------|----------|---------------|-------|-----------|----------|---------------|-------|-------------------------------------|----------|---------------|-------|--------------|----------|--------|--|-----------|----------|--------|---|
| | NUMBER | DAYS | DEATHS | INJURIES | DAMAGE | DEATHS | INJURIES | DAMAGE | | DEATHS | INJURIES | DAMAGE | | DEATHS | INJURIES | DAMAGE | | DEATHS | INJURIES | DAMAGE | | DEATHS | INJURIES | DAMAGE | | DEATHS | INJURIES | DAMAGE | |
| | | | | | | | | PROP.
ERTY | CROPS | | | PROP.
ERTY | CROPS | | | PROP.
ERTY | CROPS | | | PROP.
ERTY | CROPS | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Alabama * | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Alaska * | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Arizona | 1 | 1 | 0 | 0 | 4 | | | | | | | | | | | | | | | | | | | | | 23 | 0 | 6 | 4 |
| Arkansas | 2 | 2 | 0 | 5 | 5 | 0 | 0 | 0 | 4 | 0 | 2 | 5 | 0 | | | | | | | | | | | | | 0 | 22 | 8 | 0 |
| California | | | | | | | | | | | | | | | | | | | | | | | | | | 0 | 0 | 6 | 0 |
| Colorado | 1 | 1 | 0 | 0 | 4 | | | | | | | | | | | | | | | | | | | | | 0 | 0 | 6 | 0 |
| Connecticut * | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Delaware | | | | | | | | | | 0 | 0 | 3 | 0 | | | | | | | | | | | | | | | | |
| Florida | | | | | | | | | | 0 | 0 | 5 | 0 | 2 | 24 | 0 | 0 | | | | | | | | | | | | |
| Georgia | | | | | | | | | | 0 | 0 | 4 | 0 | 1 | 0 | 4 | 0 | | | | | | | | | | | | |
| Hawaii * | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Idaho | | | | | | 0 | 0 | 3 | 3 | 0 | 1 | 4 | | 0 | 0 | 3 | 0 | | | | | | | | | | | | |
| Illinois | 2 | 2 | 0 | 0 | 4 | | | | | | | | | 1 | 3 | 0 | 0 | | | | | | | | | 0 | 0 | 4 | C |
| Indiana | 2 | 1 | 0 | 4 | 5 | | | | | 0 | 1 | 3 | 0 | | | | | | | | | | | | | | | | |
| Iowa | 4 | 1 | 0 | 16 | 7 | 0 | 0 | 4 | 4 | 0 | 3 | 6 | 5 | 0 | 1 | 0 | 0 | | | | | | | | | | | | |
| Kansas | 2 | 2 | 0 | 0 | 4 | 0 | 0 | 5 | 5 | 0 | 2 | 6 | 5 | 0 | 3 | 5 | 0 | | | | | | | | | 0 | 0 | 4 | 5 |
| Kentucky | 1 | 1 | 0 | 2 | 4 | 0 | 0 | 2 | 2 | 0 | 0 | 2 | 2 | 0 | 5 | 5 | 0 | | | | | | | | | 0 | 0 | 2 | 2 |
| Louisiana | | | | | | | | | | | | | | | 0 | 1 | 0 | | | | | | | | | | | | |
| Maine | | | | | | | | | | 0 | 0 | 4 | 0 | 0 | 0 | 3 | 0 | | | | | | | | | | | | |
| Maryland | | | | | | | | | | 1 | 0 | 4 | 0 | 0 | 0 | 4 | 0 | | | | | | | | | | | | |
| Massachusetts | | | | | | | | | | 0 | 0 | 3 | 0 | 0 | 0 | 4 | 0 | | | | | | | | | | | | |
| Michigan | | | | | | | | | | 0 | 0 | 4 | 0 | 0 | 0 | 4 | 0 | | | | | | | | | | | | |
| Minnesota | 1 | 1 | 0 | 0 | 3 | 0 | 0 | 0 | 5 | 0 | 0 | 5 | 2 | 1 | 0 | 4 | 0 | | | | | | | | | 0 | 0 | 0 | 6 |
| Mississippi | 1 | 1 | 0 | 0 | 0 | | | | | | | | | | | | | | | | | | | | | | | | |
| Missouri | 3 | 3 | 0 | 0 | 4 | | | | | 0 | 4 | 5 | | | | | | | | | | | | | | | | | |
| Montana | | | | | | | | | | 0 | 0 | 5 | 0 | | | | | | | | | | | | | | | | |
| Nebraska | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 4 | 5 | 0 | 0 | 6 | 4 | | | | | | | | | | | | | | | | |
| Nevada * | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| New Hampshire | | | | | | 0 | 0 | 0 | 2 | 0 | 0 | 4 | 0 | 0 | 0 | 4 | 0 | | | | | | | | | | | | |
| New Jersey | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| New Mexico | | | | | | | | | | | | | | 0 | 2 | 3 | 0 | | | | | | | | | | | | |
| New York | 1 | 1 | 0 | 0 | 5 | | | 0 | 3 | 1 | 4 | 5 | 0 | | | | | | | | | | | | | | | | |
| North Carolina | | | | | | | | | | 0 | 0 | 4 | 0 | 0 | 0 | 4 | 0 | | | | | | | | | | | | |
| North Dakota | 1 | 1 | 0 | 0 | 4 | 0 | 0 | 5 | 4 | 0 | 0 | 3 | 0 | 0 | 0 | 1 | 0 | | | | | | | | | | | | |
| Ohio | 7 | 4 | 0 | 3 | 5 | 0 | 0 | 2 | C | 0 | 0 | 5 | C | 6 | 2 | 5 | | | | | | | | | | | | | |
| Oklahoma | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Oregon * | 9 | 5 | 0 | 0 | 5 | 0 | 0 | 0 | 3 | 0 | 0 | 5 | 0 | 2 | 0 | 4 | 0 | | | | | | | | | 0 | 0 | 4 | 0 |
| Pacific Area * | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pennsylvania | 1 | 1 | 0 | 5 | 6 | | | | | 0 | 0 | 4 | 4 | 0 | 1 | 5 | 4 | | | | | | | | | 0 | 0 | 4 | 4 |
| Puerto Rico | | | | | | | | | | | | | | 3 | 0 | 0 | 0 | | | | | | | | | 0 | 0 | 4 | 0 |
| Rhode Island * | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| South Carolina | | | | | | | | | | 0 | 0 | 5 | 0 | 0 | 0 | 5 | 0 | | | | | | | | | | | | |
| South Dakota | 1 | 1 | 0 | 0 | 0 | | | | | 0 | 1 | 6 | 5 | | | | | | | | | | | | | 0 | 0 | 4 | 5 |
| Tennessee | 1 | 1 | 0 | 0 | 2 | | | | | 0 | 0 | 4 | 0 | 1 | 0 | 6 | 0 | | | | | | | | | 0 | 0 | 5 | 0 |
| Texas | 9 | 6 | 0 | 0 | 4 | | | | | | | | | 3 | 0 | 3 | 0 | | | | | | | | | 0 | 0 | 5 | 0 |
| Utah | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Vermont | | | | | | | | | | 0 | 0 | 4 | 0 | 0 | 0 | 4 | 0 | | | | | | | | | 2 | 2 | 5 | 4 |
| U. S. Virgin Is.* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Virginia | | | | | | | | | | 0 | 0 | 4 | 0 | | | | | | | | | | | | | 0 | 0 | 3 | 0 |
| Washington | | | | | | | | | | | 2 | 5 | 6 | | | | | | | | | | | | | | | | |
| West Virginia | | | | | | | | | | 0 | 0 | 5 | 0 | | | | | | | | | | | | | | | | |
| Wisconsin | 4 | 2 | 0 | 0 | 5 | 0 | 0 | 4 | 4 | 0 | 5 | 6 | 0 | 0 | 1 | 5 | 0 | | | | | | | | | | | | |
| Wyoming | | | | | | | | | | | | | | 1 | 0 | 0 | 0 | | | | | | | | | | | | |

* Includes crop damage

C Crop damage

* No occurrence of storms or unusual weather phenomena reported.

Includes heavy sleet storm

Freezing drizzle and freezing rain, commonly known as glaze

Ø For breakdown of "All Others", and for detailed listing of other storms, see the Environmental Data Service, NOAA, monthly publication STORM DATA.

† Storm damages are placed in categories varying from 1 to 9 as follows:

1 Less than \$50

2 \$50 to \$500

3 \$500 to \$5,000

4 \$5,000 to \$50,000

5 \$50,000 to \$500,000

6 \$500,000 to \$5,000,000

7 \$5,000,000 to \$50,000,000

8 \$50,000,000 to \$500,000,000

9 \$500,000,000 to \$5,000,000,000

GENERAL SUMMARY OF RIVER AND FLOOD CONDITIONS

SEPTEMBER 1970

Elmer R. Nelson, Office of Hydrology

The most disastrous flooding during September was the record breaking floods in the central mountains of Arizona, southwestern Colorado and southeastern Utah. The floods were due to rainfall of high intensity concentrated in short periods. The Geological Survey reported that the recurrence intervals of flood peaks at many gaging stations in Arizona ranged from 20 to 100 years with indications that some might approach 200 years. Most streamflows in the San Juan River were the greatest since 1927. The total confirmed deaths were listed at 23. The total flood damage was estimated at over \$5 million.

HUDSON BAY DRAINAGE

Red River of the North Basin.--Heavy rain on the evening of the 20th caused local flooding in the Fargo, N. Dak., Moorhead, Minn., areas. The storm drains could not handle the 2.5 to 3.5 inches of precipitation that fell in less than 2 hours.

Streams and storage in the Souris River and Devils Lake Basins were at moderate, seasonal levels. Streams in the Red River of the North Basin were far below normal and, in many cases, the flow was only a trickle.

MISSISSIPPI SYSTEM

Upper Mississippi Basin.--The most significant flooding in the Upper Mississippi Basin during the month occurred in northeast Missouri and west-central Illinois. Small streams in northeast Missouri, such as the Fox, Wyaconda, Fabius and Salt Rivers, were in flood during much of the last two weeks in September. In Illinois, the La Moine, Spoon and Illinois Rivers were in flood towards the end of the month. The heavy rains which caused these floods were the continuation of an extremely wet pattern which was established several months ago. Some stations reported 10 to more than 13 inches of precipitation during September which was much above the normal of 3.5 inches.

Extensive flooding occurred on the Salt and Cuivre Rivers in Missouri and on the La Moine River in Illinois. Flood stage was exceeded on these rivers by 5.5 to 8.5 ft. Heavy damage resulted from the overflows. Minor to moderate flooding occurred on the Illinois River at and below La Salle, Ill.

The main stem of the Mississippi River rose rapidly to above flood stage in the lower reach at and below Quincy, Ill., between the 23d and 29th. Considerable overflow (3 to 5 ft.) occurred from Hannibal, Mo., to Alton, Ill. Flooding elsewhere was mostly minor.

Missouri Basin.--Precipitation for September was well above normal in northwest Iowa and southwest Minnesota. Sioux City, Iowa, reported the 5th wettest September on record with 7.54 inches of rain. Alton, Iowa, recorded a total of 9.17 inches during the month. With the exception of the heavy rain during the evening of the 2d, the precipitation was well spaced. Alton, Iowa, recorded 5.73 inches and Maurice, Iowa, 4 inches, during this storm. The Floyd River approached within 1 foot of flood stage at Alton during the night of the 2d, and near one half bankfull stage at Merrill, Iowa, on the 3d.

Beginning on the evening of the 21st and continuing into the night of the 23, extremely heavy rains (4 to 8 inches) in northwestern Missouri caused considerable flash flooding. Most rivers rose to bankfull or above and remained out of their banks for several days. In the Kansas City, Mo., area, the Blue and Little Blue Rivers rose to heights that caused many industries

and households to evacuate. Several highways and streets were closed temporarily. The Blue River at Bannister Road crested nearly 12 feet above flood stage during the evening of the 22d. The Little Blue River at Lake City, Mo., crested over 8 ft. above flood stage in the early afternoon of the 23d. Sandbagging was done at the U. S. Army Arsenal Plant at Lake City and no damage was reported.

The Little Platte River at Smithville, Mo., crested 9.3 ft. above flood stage on the 23d. Many people were evacuated to higher ground. Many thousands of acres of lowlands and farmlands were flooded along the Grand River in north-central Missouri. The most severe flooding occurred in the lower Grand where the river reached 6 to 9 ft. above flood stages.

Heavy rains (4 to 7 inches) over the lower Kansas and Marais des Cygnes Basins in Kansas on the 22d and 23d caused moderate flooding. Three to 5-foot overflows occurred along Pottawatomie Creek and the lower Marais des Cygnes River from Osawatomie, Kansas, downstream. A considerable acreage of agricultural bottomlands was inundated from 3 to 6 days and unharvested crop losses are expected to be heavy. Overflows along the small tributaries of the lower Kansas River were brief and slight.

The lower Missouri River in the reach below the mouth of the Kansas River overflowed its banks between the 23d and the end of the month. The heaviest flooding occurred below the mouth of the Gasconade River where flood stage was exceeded by 4 to 6 ft. Flooding above Gasconade, Mo., was mostly light.

White Basin.--The Cache River at Patterson, Ark., was above flood stage for two periods during September. One to 2 inch rains on the 3d and again on the 4th caused a slow rise to 0.1 foot above flood stage on the 9th. Heavy rain of 3 to 6 inches on the 18-19th caused a rise to nearly 2 ft. above flood stage on the 27th. It continued in flood from the 23d into October. Light damage occurred to bottom-land crops.

Red Basin.--The only flooding in the Red Basin during September occurred along Beaver Creek near Waurika, Okla., on the 22d. The heavy rain caused the creek to rise rapidly to 1 foot above flood stage on the 22d. No damage was reported.

Arkansas Basin.--The heavy rains on the 22d and 23d caused the Neosho River to rise to flood stage on the 24th. Heavy rainfall, centered in southeast Tulsa, produced near bankfull rises on Joe and Mingo Creeks, with light flooding reported on extreme lower Joe Creek. This was the heaviest rainfall at Tulsa, Okla., since April 3 and 4, 1964.

The North Canadian River at Yukon, Okla., was out of its banks up to 2.5 ft. from near noon on the 22d to afternoon on the 23d. Damages, if any, were light as only minor bottomland flooding was reported.

The Little River near Tecumseh, Okla., rose rapidly to 2 ft. above flood stage on the 23d. It was out of its banks on the 22d to the 24th. The flood crest diminished as it moved downstream to Sasakwa, Okla., where the crest of 17.9 ft. on the 23d was more than 3 ft. below flood stage. Minor bottomland flooding was reported.

Flash flooding occurred on Deep Fork Creek in northern Oklahoma City, Okla., due to 4 to 8 inches of rain on the 22d and 23d. Brief bankfull conditions occurred on Lightning Creek in the southern portion of the Oklahoma City metropolitan area. Considerable flooding of underpasses and other low-lying areas occurred as the volume of water exceeded storm sewer capacity

SEPTEMBER 1970

in much of the city.

Flash flooding occurred in many creeks and small tributaries in central and east-central Oklahoma. Whiskey Creek in Heaton, Okla., overflowed and caused about a dozen families to evacuate their homes on the 22d.

Lower Mississippi Basin.--The Lower Mississippi River at Memphis, Tenn., fell below zero during September for the first time since Sept. 1968. By the end of the month, the stage rose to near 17 ft. which was the highest September stage at Memphis since 1965 and the 3d highest September stage in over 38 years.

WEST GULF OF MEXICO DRAINAGE

Some flooding occurred along the Lampasas River above Youngsfort, Tex., from heavy rains on the 22d. Six inches of rain fell in 2 hours near Moline, Tex. A flash flood warning was issued for the Lampasas River basin above Stillhouse Hollow Reservoir on the 22d. Storage in the Stillhouse Hollow Reservoir was increased by 16,000 acre-feet on the 21st - 24th.

Minor flooding occurred on the Navidad River at Canado, Tex., on the 2d to the 5th due to heavy precipitation. Precipitation amounts ranged up to 7.5 inches in spotty areas during the first 3 days of the month. Flooding was restricted to the lowlands along the river and no damage was reported.

Rains of 4 to 6 inches on the upper Frio and extreme upper Nueces Basins in Texas caused considerable flooding with low water crossings closed through the afternoon and night of the 21st. Rainfall amounts of 6 to 9 inches occurred in a limited area north of Camp Wood and Leakey, Tex. Downstream on the Nueces, a brief crest near flood stage passed Uvalde, Tex., on the early morning of the 22d. A crest slightly above flood stage occurred on the Frio River near Derby, Tex., on the 23d.

Heavy rains of 4 to 5 inches caused the upper Rio Grande River to rise 0.5 to 1.4 ft. above flood stage at Del Norte, Colo., on the 6th and Monte Vista, Colo., on the 7th. Some damage resulted to low-lying cropland. Additional heavy rains caused a 0.5 foot overflow at Monte Vista, Colo., on the 15th. The Rio Grande at Presidio, Tex., rose to flood stage on the 27th. Elsewhere along the river from Presidio to Boquillas, Tex., the river was much above normal from the 27th to the 30th.

GULF OF CALIFORNIA DRAINAGE

Colorado Basin.--Unprecedented flash floods occurred in the central mountains of Arizona on Saturday afternoon and evening, Sept. 5, and in the four corners area of Utah, Colorado, Arizona and New Mexico on Sept. 5-6. It transformed a Labor Day weekend camping holiday in the headwaters of Tonto Creek, into a national catastrophe. Of the 23 lives lost, 14 died attempting to flee the campground just below the Mogollon Rim, about 30 miles northeast of Payson, Ariz. Two persons lost their lives Saturday night, Sept. 5, when their automobile dropped into flood waters as the road washed out beneath them in the remote McElmo Wash area of the San Juan River Basin of extreme southern Utah. Damage from the flooding was estimated at over \$5 million. More than \$3 million of this damage occurred in the Tonto National Forest. The flooding in central Arizona was of record proportions. Creeks, streams and rivers draining hundreds of square miles rose 5 to 10 ft. per hour. Uprooted trees, huge boulders, sections of fences, automobiles, and small buildings were washed downstream as far as 30 to 40 miles

before being deposited and left at points 20 ft. or more above the creek beds. Some of the debris caused temporary damming as it was jammed into restricted channels. In the Sycamore Creek area near Sunflower, Ariz., it was estimated that the water rose 36 ft. above the creek bed through that portion of the canyon. All Geological Survey river gages in the Sycamore Creek drainage were washed away. Tributaries to the Salt River and the Gila River from Tonto Creek westward to the Hassayampa River reached record high stages on Sept. 5. Reservoirs on the lower Aqua Fria and Verde Rivers and Roosevelt Reservoir at the mouth of Tonto Creek controlled the flood flows and prevented catastrophic flooding on the mainstem of the Salt and Gila Rivers in the Phoenix, Ariz., area and farther downstream. Tributaries to the San Juan River in southwestern Colorado and the Little Colorado River from its headwaters in western New Mexico to Winslow, Ariz., were out of their banks on Sept. 5-6. At Holbrook, Ariz., the water rose to a depth of over 3 ft. on Sept. 6, damaging 37 homes. Limited residential flood damage also occurred at Winslow, Ariz. There was local flooding in areas near Tucson, Ariz., on Sept. 4 and 6.

The heavy loss of life, the magnitude of the flooding and the devastation resulting from the unprecedented rains made the Labor Day weekend calamity the greatest natural disaster in the history of the state of Arizona. The rains which fell from shortly after midnight Saturday morning Sept. 5 to late Saturday evening were of record proportions. The heaviest 24-hr. amount recorded during this storm was 11.4 inches at Workman Creek, Ariz., from 10 p.m. Sept. 4, to 10 p.m. Sept. 5. This station is located in the Sierra Ancha mountains northeast of Roosevelt Lake, about 60 miles east-northeast of Phoenix. This rainfall amount was nearly double the former record of 6 inches recorded in a 24-hour period at Crown King, Ariz., on Dec. 19, 1967. See supplementary precipitation data for Arizona and Colorado published for this storm in the September issue of the State's Climatological Data.

The excessive precipitation causing the record Arizona-Colorado flash floods was associated with an eastern Pacific tropical storm located in the Pacific Ocean south of Baja, Calif. The great amount of moisture-laden air from tropical storm Norma was the major causative factor. A convergent flow of air developed in the lower levels in the Tucson, Ariz., area and south-southwestward to near Sasabe, Ariz., on the morning of the 4th. This produced heavy precipitation along the east side of the Baboquivari Mountains and northward to the Tucson and the Arva Valley. This heavy precipitation ended late on Sept. 4. A cold front in southwestern Utah and southern Nevada on the early morning of the 5th was associated with an unseasonably deep upper trough located over Nevada and southern California. A surface trough was located ahead of the cold front extending from Las Vegas, Nev., to Palm Springs, Calif. Orographically induced precipitation increased sharply over the mountains of central Arizona as the upper trough and the surface trough approached from the west. Several lines of thunderstorms in the desert valleys of western Arizona moved eastward and accounted for the late afternoon of the 5th and early evening precipitation maximum in the Salt River Valley. The precipitation ended over the central mountains and most of the northeastern Plateau by the early evening of the 5th. Renewed shower activity occurred throughout the evening of the 5th from Buckeye, Ariz., area eastward as the forward movement of the surface

GENERAL SUMMARY OF RIVER AND FLOOD CONDITIONS-Continued

SEPTEMBER 1970

trough decreased. The surface trough took on the characteristics of a cold front and moved slowly southward to between Tucson and Douglas, Ariz., by the morning of the 6th. The strong, southerly flow continued

south of the front during the 6th, producing more orographic rainfall, primarily over the mountains of southeastern Arizona. By late on the 6th, the front gradually dissipated, ending most of the precipitation.

FLOOD STAGE DATA

(All dates in September unless otherwise specified)

SEPTEMBER 1970

| River and station | Flood stage | Above flood stages -dates | | Crest * | |
|---------------------------------------|-------------|---------------------------|---------|----------|--------|
| | | From- | To- | Stage | Date |
| MISSISSIPPI SYSTEM | | | | | |
| Upper Mississippi Basin | | | | | |
| Rock: Bismarck, Mo. | 15 | 18 | 22 | 18 16.25 | 18 24 |
| Rock: New London, Mo. | 19 | 23 | 28 | 27.6 | 25 |
| Cuivre: Troy, Mo. | 21 | 23 | 26 | 27.2 | 24 |
| Old Monroe, Mo. | 24 | 24 | 28 | 29.35 | 25 |
| Spoon: London Mills, Ill. | 17 | 13 | 14 | 17.0 | 13-14 |
| | | 15 | 16 | 17.8 | 15 |
| | | 22 | 23 | 20.8 | 23 |
| | | 26 | 28 | 28.0 | 27 |
| Seville, Ill. | 22 | 24 | 29 | 24.7 | 26 |
| La Moine: Ripley, Ill. | 22 | 23 | Oct. 2 | 28.6 | 27 |
| Illinois: La Salle, Ill. | 20 | 25 | 28 | 21.6 | 26 |
| Peoria, Ill. | 18 | 28 | Oct. 1 | 18.2 | 30 |
| Havana, Ill. | 14 | 24 | Oct. 12 | 17.3 | 30 |
| Beardstown, Ill. | 14 | 24 | Oct. 12 | 18.5 | Oct. 1 |
| Meredosia, Ill. | 32 | 25 | Oct. 10 | 35.3 | 30 |
| Big Muddy: Murphysboro, Ill. | 16 | 27 | Oct. 1 | 17.6 | 29 |
| Mississippi: Quincy, Ill. | 17 | 24 | 26 | 17.7 | 24 |
| Hannibal, Mo. | 16 | 23 | 27 | 19.2 | 24 |
| Louisiana, Mo. | 15 | 24 | 28 | 19.4 | 26 |
| Clarksville, Mo. | 25 | 24 | 28 | 29.9 | 26 |
| Winfield, Mo. | 26 | 25 | 29 | 30.3 | 26 |
| Grafton, Ill. | 18 | 25 | Oct. 1 | 22.9 | 28 |
| Alton, Ill. | 21 | 25 | Oct. 1 | 25.7 | 28 |
| St. Louis, Mo. | 30 | 26 | 29 | 31.2 | 28 |
| Chester, Ill. | 27 | 26 | Oct. 2 | 30.5 | 29 |
| Cape Girardeau, Mo. | 32 | 27 | Oct. 1 | 34.15 | 29 |
| Thebes, Ill. | 33 | 29 | Oct. 1 | 33.5 | 30 |
| Missouri Basin | | | | | |
| Little Platte: Smithville, Mo. | 24 | 22 | 24 | 33.3 | 23 |
| Plattsburg, Mo. | 24 | 22 | 24 | 33.3 | 23 |
| | | | | 24.8 | 22 |
| Soldier Creek: Delia 6 SE, Kans. | 17 | 22 | 22 | 16.95 | 22 |
| Wakarusa: Lawrence 4 S, Kans. | 23 | 23 | 23 | 23.4 | 23 |
| Stranger Creek: Easton, Kans. | 15 | 22 | 23 | 17.65 | 23 |
| Tonganoxie, Kans. | 22 | 22 | 24 | 25.5 | 22-23 |
| Blue: Kansas City(Bannister Rd), Mo. | 21 | 16 | 16 | 22.75 | 16 |
| | | 22 | 23 | 32.7 | 22 |
| Little Blue: Lake City, Mo. | 18 | 22 | 25 | 26.1 | 23 |
| Grand: Pattonsburg, Mo. | 25 | 22 | 23 | 26.0 | 23 |
| Gallatin, Mo. | 21 | 22 | 23 | 22.3 | 23 |
| Chillicothe, Mo. | 24 | 15 | 16 | 24.6 | 16 |
| | | 17 | 19 | 27.5 | 18 |
| Sumner, Mo. | 26 | 16 | 20 | 31.2 | 19 |
| | | 22 | 29 | 35.3 | 25 |
| Brunswick, Mo. | 12 | 22 | 29 | 18.2 | 26 |
| MISSISSIPPI SYSTEM | | | | | |
| Chariton: Chariton, Iowa | 18 | 17 | 18 | 18.6 | 17 |
| Promise City, Iowa | 18 | 21 | 22 | 18.3 | 22 |
| Novinger, Mo. | 20 | 22 | 24 | 22.65 | 23 |
| Prairie Hill, Mo. | 15 | 22 | 26 | 20.4 | 24 |
| Blackwater: Valley City, Mo. | 20 | 22 | 24 | 29.5 | 23 |
| Blue Lick, Mo. | 25 | 22 | 29 | 32.5 | 26 |
| Pottawatomie Creek: Garnett 4N, Kans. | 26 | 22 | 23 | 28.9 | 22 |
| Lane, Kans. | 23 | 22 | 24 | 27.5 | 23-24 |
| Marais des Cygnes: Osawatomie, Kans. | 28 | 22 | 25 | 33.4 | 24 |
| La Cygne, Kans. | 25 | 22 | 27 | 30.5 | 25 |
| Trading Post, Kans. | 24 | 23 | 29 | 28.0 | 24 |
| Kansas - Missouri State Line | 25 | 23 | 29 | 29.9 | 24 |
| Big Creek: Blairstown, Mo. | 20 | 22 | 25 | 23.9 | 24 |
| South Grand: Ulrich, Mo. | 22 | 25 | 25 | 24.8 | 25 |
| Brownington, Mo. | 19 | 27 | 28 | 24.2 | 28 |
| Osage: Rich Hill, Mo. | 26 | 25 | 28 | 31.1 | 25, 27 |
| Schell City, Mo. | 25 | 23 | Oct. 2 | 29.85 | 27 |
| Missouri: Lexington, Mo. | 22 | 23 | 23 | 22.0 | 23 |
| Waverly, Mo. | 18 | 23 | 24 | 19.4 | 23 |
| Glasgow, Mo. | 25 | 24 | 25 | 25.2 | 24 |
| Boonville, Mo. | 21 | 23 | 27 | 23.3 | 24 |
| Jefferson City, Mo. | 23 | 24 | 27 | 25.1 | 24 |
| Gasconade, Mo. | 22 | 23 | 30 | 28.6 | 25 |
| Hermann, Mo. | 21 | 23 | 30 | 27.2 | 24 |
| St. Charles, Mo. | 25 | 24 | 29 | 28.9 | 26, 27 |
| White Basin | | | | | |
| Cache: Patterson, Ark. | 7 | 9 | 12 | 7.1 | 9 |
| | | 23 | 1 | 8.8 | 27 |
| Red Basin | | | | | |
| Beaver Creek: Waurika(nr), Okla. | 22 | 22 | 22 | 23.0 | 22 |
| Arkansas Basin | | | | | |
| Neosho: Commerce(nr), Okla. | 15 | 24 | 24 | 15.0 | 24 |
| North Canadian: Yukon, Okla. | 11 | 22 | 23 | 13.5 | 23 |
| Little: Tecumseh, Okla. | 11 | 22 | 24 | 13.0 | 23 |
| WEST GULF OF MEXICO DRAINAGE | | | | | |
| Navidad: Canado, Tex. | 21 | 2 | 5 | 26.8 | 3 |
| Frio: Derby 2 S, Tex. | 6 | 23 | 24 | 6.1 | 23 |
| Rio Grande: Del Norte, Colo. | 4.8 | 6 | 6 | 5.4 | 6 |
| Monte Vista, Colo. | 6 | 7 | 7 | 7.35 | 7 |
| | | 15 | 15 | 6.5 | 15 |
| Presidio, Tex. | 12.8 | 27 | 27 | 12.8 | 27 |
| GULF OF CALIFORNIA DRAINAGE | | | | | |
| San Juan: Pagosa Springs, Colo. | 8 | 6 | 6 | 9.0 | 6 |
| Farmington, N. Mex. | 7 | 7 | 7 | 7.0 | 7 |

* Provisional
 † Estimated
 # Highest stage observed
 1 Estimated at end of month

Average monthly values

SEPTEMBER 1970

See reference note at end of table.

Average monthly values

IDA, TEXAS

| * FAIRBANKS, ALASKA
995 MB | | | | | | | | | | FLINT, MICH.
989 MB | | | | | | | | | | FORT WORTH, TEXAS
994 MB | | | | | | | | | | GLASGOW, MONT.
933 MB | | | | | | | | | | GRAND JUNCTION, COLO.
853 MB | | | | | | | | | |
|-------------------------------|----|-------|-------|-------|----|------|-------|-------|-------|------------------------|----|------|-----|-------|-------|-------|-----|------|------|-----------------------------|-------|-------|-----|------|------|-------|-------|-------|-----|--------------------------|--|--|--|--|--|--|--|--|--|---------------------------------|--|--|--|--|--|--|--|--|--|
| SURFACE | 30 | 135 | 3.0 | -1.8 | 32 | 9 | 30 | 236 | 13.7 | 12.3 | 22 | 1.7 | 30 | 180 | 21.7 | 18.8 | 19 | 1.6 | 30 | 696 | 7.6 | 2.2 | 04 | 1.3 | 30 | 1472 | 12.6 | -1.1 | 13 | 3.7 | | | | | | | | | | | | | | | | | | | |
| 1000 | 30 | 96 | | | | 30 | 140 | | | | | 30 | 128 | | | | | 30 | 114 | | | | 30 | 109 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 950 | 30 | 511 | 1.6 | -3.1 | 32 | 8 | 30 | 575 | 14.5 | 10.5 | 24 | 4.5 | 30 | 575 | 20.6 | 17.2 | 19 | 6.8 | 30 | 541 | | | | 30 | 552 | | | | | | | | | | | | | | | | | | | | | | | | |
| 900 | 30 | 945 | -1.0 | -5.4 | 26 | 1.6 | 30 | 1032 | 12.6 | 7.5 | 26 | 6.4 | 30 | 1042 | 19.2 | 13.6 | 20 | 8.3 | 30 | 992 | 12.2 | 1.0 | 31 | 3.2 | 30 | 1014 | | | | | | | | | | | | | | | | | | | | | | | |
| 850 | 30 | 1390 | -3.6 | -7.7 | 26 | 3.6 | 30 | 1511 | 11.4 | 3.6 | 27 | 9.5 | 30 | 1533 | 16.9 | 10.0 | 20 | 6.7 | 30 | 1470 | 10.2 | -2.1 | 29 | 5.4 | 30 | 1498 | | | | | | | | | | | | | | | | | | | | | | | |
| 800 | 30 | 1877 | -5.2 | -11.2 | 26 | 3.0 | 30 | 2017 | 7.0 | 2.0 | 27 | 11.2 | 30 | 2017 | 14.2 | 6.7 | 20 | 5.6 | 30 | 1979 | | | | 6.5 | 30 | 2011 | 13.9 | -2.1 | 12 | 3.4 | | | | | | | | | | | | | | | | | | | |
| 750 | 30 | 2380 | -8.6 | -14.2 | 26 | 5.9 | 30 | 24550 | 7.0 | -9.5 | 27 | 11.6 | 30 | 24593 | 10.0 | 2.2 | 20 | 5.3 | 30 | 2498 | 3.2 | -6.6 | 28 | 7.1 | 30 | 2531 | 10.6 | -4.8 | 23 | 3.8 | | | | | | | | | | | | | | | | | | | |
| 700 | 30 | 2912 | -11.4 | -18.3 | 26 | 6.9 | 30 | 3115 | 3.9 | -8.5 | 27 | 12.5 | 30 | 3168 | 8.7 | -1.20 | 4.3 | 30 | 3053 | -4.5 | -9.8 | 28 | 7.9 | 30 | 3122 | 6.6 | -7.5 | 25 | 5.2 | | | | | | | | | | | | | | | | | | | | |
| 650 | 30 | 3477 | -14.6 | -22.2 | 26 | 8.8 | 30 | 3714 | 1.1 | -11.3 | 27 | 14.4 | 30 | 3777 | 5.1 | -3.8 | 20 | 4.3 | 30 | 3641 | -4.3 | -13.3 | 27 | 9.7 | 30 | 3726 | 2.4 | -10.7 | 25 | 6.8 | | | | | | | | | | | | | | | | | | | |
| 600 | 30 | 4079 | -18.2 | -28.0 | 26 | 9.5 | 30 | 4354 | -2.4 | -10.2 | 27 | 15.5 | 30 | 4427 | 1.6 | -8.0 | 21 | 4.2 | 30 | 4268 | -7.9 | -19.1 | 27 | 11.3 | 30 | 4367 | -7.1 | -13.7 | 25 | 9.0 | | | | | | | | | | | | | | | | | | | |
| 550 | 30 | 4724 | -22.4 | -30.1 | 26 | 9.8 | 30 | 5040 | -6.2 | -21.1 | 27 | 16.8 | 30 | 5124 | -2.1 | -12.5 | 23 | 4.1 | 30 | 4990 | -11.6 | -23.5 | 27 | 12.7 | 30 | 5052 | -7.1 | -19.2 | 25 | 10.2 | | | | | | | | | | | | | | | | | | | |
| 500 | 30 | 5418 | -26.8 | -35.2 | 26 | 11.3 | 30 | 5780 | -10.8 | -24.4 | 27 | 17.9 | 30 | 5875 | -4.2 | -17.6 | 23 | 4.8 | 30 | 5684 | -15.2 | -28.7 | 27 | 13.3 | 30 | 5788 | -12.4 | -25.5 | 25 | 11.5 | | | | | | | | | | | | | | | | | | | |
| 450 | 30 | 6171 | -31.6 | -37.9 | 26 | 12.9 | 30 | 6282 | -16.0 | -30.3 | 27 | 19.8 | 30 | 6492 | -11.2 | -22.3 | 23 | 5.7 | 30 | 6448 | -21.6 | -34.4 | 27 | 16.2 | 30 | 6585 | -17.4 | -32.1 | 25 | 13.9 | | | | | | | | | | | | | | | | | | | |
| 400 | 30 | 6995 | -37.1 | -42.1 | 27 | 14.1 | 30 | 7459 | -22.0 | -34.5 | 27 | 22.2 | 30 | 7585 | -17.5 | -29.2 | 23 | 7.0 | 30 | 7305 | -27.9 | -38.7 | 27 | 17.0 | 30 | 7458 | -22.4 | -37.9 | 25 | 17.3 | | | | | | | | | | | | | | | | | | | |
| 350 | 30 | 7910 | -42.8 | -42.6 | 27 | 16.4 | 30 | 8431 | -28.8 | -40.8 | 27 | 24.1 | 30 | 8575 | -24.4 | -35.8 | 23 | 7.4 | 30 | 8254 | -34.9 | -43.7 | 27 | 16.5 | 30 | 8424 | -30.3 | -44.0 | 25 | 20.1 | | | | | | | | | | | | | | | | | | | |
| 300 | 30 | 8932 | -49.8 | | 27 | 17.2 | 30 | 9513 | -36.6 | -47.9 | 27 | 26.7 | 30 | 9676 | -32.8 | -44.7 | 24 | 8.3 | 30 | 9309 | -42.9 | -47.7 | 27 | 17.8 | 30 | 9500 | -38.1 | -44.7 | 25 | 23.1 | | | | | | | | | | | | | | | | | | | |
| 250 | 30 | 9915 | -52.9 | | 27 | 17.7 | 30 | 10751 | -45.9 | | 27 | 30.1 | 30 | 10793 | -42.7 | | 25 | 9.3 | 30 | 10519 | -49.8 | | 27 | 19.2 | 30 | 10735 | -46.5 | | 25 | 26.9 | | | | | | | | | | | | | | | | | | | |
| 200 | 30 | 11556 | -51.9 | | 27 | 15.8 | 30 | 12407 | -54.8 | | 28 | 31.1 | 30 | 12401 | -54.5 | | 26 | 11.4 | 30 | 11984 | -53.2 | | 26 | 21.5 | 30 | 12190 | -53.0 | | 29 | 29.4 | | | | | | | | | | | | | | | | | | | |
| 175 | 30 | 12424 | -50.8 | | 27 | 14.4 | 30 | 13053 | -58.2 | | 28 | 28.3 | 30 | 13245 | -60.6 | | 26 | 11.3 | 30 | 12824 | -53.8 | | 26 | 20.8 | 30 | 13050 | -56.7 | | 25 | 27.5 | | | | | | | | | | | | | | | | | | | |
| 150 | 30 | 13428 | -51.1 | | 27 | 13.3 | 30 | 14015 | -61.9 | | 28 | 24.8 | 30 | 14491 | -66.5 | | 26 | 8.5 | 30 | 13811 | -55.3 | | 26 | 19.5 | 30 | 14018 | -60.8 | | 25 | 23.0 | | | | | | | | | | | | | | | | | | | |
| 125 | 30 | 14015 | -51.0 | | 27 | 12.0 | 30 | 15137 | -64.1 | | 28 | 19.1 | 28 | 15528 | -71.2 | | 26 | 5.9 | 30 | 14972 | -56.6 | | 26 | 17.1 | 30 | 15142 | -64.3 | | 25 | 18.2 | | | | | | | | | | | | | | | | | | | |
| 100 | 30 | 16065 | -51.7 | | 28 | 11.5 | 30 | 16503 | -63.8 | | 28 | 14.4 | 29 | 16598 | -72.2 | | 26 | 2.2 | 30 | 16386 | -57.0 | | 27 | 13.8 | 29 | 16500 | -65.1 | | 26 | 9.8 | | | | | | | | | | | | | | | | | | | |
| 75 | 30 | 17512 | -51.9 | | 27 | 9.7 | 30 | 17880 | -61.8 | | 28 | 8.6 | 28 | 17924 | -67.9 | | 12 | 1.0 | 30 | 17802 | -58.6 | | 27 | 9.9 | 28 | 17854 | -62.8 | | 26 | 5.1 | | | | | | | | | | | | | | | | | | | |
| 70 | 30 | 18376 | -52.6 | | 27 | 8.7 | 29 | 18713 | -63.6 | | 28 | 7.6 | 29 | 18766 | -68.1 | | 10 | 0.8 | 30 | 18656 | -60.1 | | 27 | 6.9 | 28 | 18692 | -60.1 | | 25 | 2.9 | | | | | | | | | | | | | | | | | | | |
| 60 | 30 | 19372 | -52.8 | | 27 | 8.7 | 29 | 19684 | -57.2 | | 29 | 4.3 | 27 | 19688 | -60.9 | | 10 | 4.3 | 29 | 19630 | -55.4 | | 26 | 6.1 | 28 | 19656 | -58.6 | | 24 | 1.0 | | | | | | | | | | | | | | | | | | | |
| 50 | 30 | 20546 | -53.7 | | 28 | 8.1 | 28 | 20847 | -55.5 | | 31 | 2.7 | 25 | 20832 | -58.0 | | 09 | 5.3 | 29 | 20776 | -54.4 | | 26 | 5.5 | 28 | 20809 | -56.4 | | 20 | .6 | | | | | | | | | | | | | | | | | | | |
| 40 | 30 | 21980 | -54.1 | | 28 | 7.0 | 27 | 22283 | -53.3 | | 34 | 1.7 | 24 | 22245 | -55.7 | | 09 | 7.2 | 29 | 22231 | -53.0 | | 27 | 5.4 | 28 | 22231 | -54.8 | | 10 | 1.7 | | | | | | | | | | | | | | | | | | | |
| 30 | 30 | 23813 | -54.4 | | 28 | 7.0 | 26 | 24144 | -51.1 | | 05 | 2.0 | 24 | 24091 | -52.7 | | 09 | 9.6 | 27 | 24097 | -51.2 | | 28 | 4.2 | 28 | 24081 | -52.8 | | 09 | 3.0 | | | | | | | | | | | | | | | | | | | |
| 20 | 30 | 25985 | -53.5 | | 23 | 5.9 | 23 | 25348 | -48.7 | | 04 | 2.6 | 23 | 25276 | -51.0 | | 09 | 13.3 | 28 | 25266 | -49.7 | | 28 | 1.9 | 29 | 25348 | -53.4 | | 09 | 4.0 | | | | | | | | | | | | | | | | | | | |
| 20 | 25 | 26416 | -53.1 | | 27 | 7.5 | 22 | 26812 | -48.1 | | 06 | 1.5 | 23 | 26731 | -48.6 | | 09 | 10.4 | 26 | 26756 | -48.3 | | 28 | 1.1 | 25 | 26716 | -49.9 | | 09 | 4.2 | | | | | | | | | | | | | | | | | | | |
| 15 | 21 | 28258 | -51.2 | | 27 | 9.7 | 19 | 28723 | -45.8 | | 06 | 1.6 | 20 | 28631 | -46.9 | | 09 | 11.3 | 23 | 28622 | -46.9 | | 29 | 1.9 | 21 | 28601 | -48.0 | | 07 | 3.6 | | | | | | | | | | | | | | | | | | | |
| 10 | 11 | 30917 | -48.0 | | | 8 | 31381 | -43.5 | | | | | | 7 | 31349 | -42.7 | | 09 | 13.4 | 21 | 31358 | -43.6 | | 28 | 3.1 | 16 | 31264 | -45.4 | | | | | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | 17 | 33740 | -42.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Average monthly values

Average monthly value

SEPTEMBER 1970

See reference note at end of table

Average monthly values

[illegible]

| | | YAJUJO, MARSHALL IS. | | | | MEDFORD, OREG. | | | | MERIDA, MEXICO | | | | MIAMI, FLA. | | | | MIDLAND, TEXAS | | | | | | | | | | | | |
|---------|----|----------------------|-------|-------|----|----------------|----|-------|-------|----------------|----|------|-------|-------------|-------|-------|-----|----------------|-------|-------|-------|-------|-----|-----|-------|-------|-------|-------|-----|-----|
| | | 101C MB | | | | 971 MB | | | | 1011 MB | | | | 1015 MB | | | | 917 MB | | | | | | | | | | | | |
| SURFACE | 30 | 3 | 23.6 | 24.2 | 09 | 3.6 | 30 | -01 | 9.3 | 3.8 | 24 | 2.3 | 30 | 11 | 22.7 | 22.4 | 08 | 1.5 | 30 | 4 | 25.8 | 24.3 | 05 | 1.4 | 30 | 874 | 18.4 | 14.3 | 15 | 2.0 |
| 1000 | 30 | 93 | 27.2 | 20.5 | 09 | 3.8 | 30 | 584 | | | | 30 | 107 | 24.0 | 23.4 | 10 | 4.2 | 30 | 138 | 25.9 | 23.6 | 08 | 2.8 | 30 | 119 | | | | | |
| 900 | 30 | 93 | 27.2 | 20.5 | 09 | 5.8 | 30 | 152 | 12.4 | 2.2 | 32 | 5.3 | 30 | 557 | 22.8 | 20.6 | 12 | 8.2 | 30 | 586 | 22.9 | 20.6 | 10 | 5.7 | 30 | 556 | | | | |
| 800 | 30 | 910 | 1.018 | 15.4 | 09 | 4.3 | 30 | 102 | 10.2 | 1.0 | 26 | 1.6 | 30 | 1089 | 20.2 | 18.1 | 10 | 5.1 | 30 | 1089 | 20.2 | 18.1 | 10 | 5.1 | 30 | 1129 | 18.5 | 13.8 | 17 | 4.4 |
| 850 | 30 | 1.511 | 18.3 | 12.2 | 10 | 6.9 | 30 | 1.514 | 10.5 | -1.7 | 17 | 2.30 | 30 | 1.522 | 17.9 | 10.9 | 11 | 7.0 | 30 | 1.551 | 17.2 | 12.5 | 10 | 5.4 | 30 | 1.522 | 17.3 | 10.0 | 19 | 8.4 |
| 800 | 30 | 2.029 | 15.7 | 8.4 | 09 | 6.9 | 30 | 2.017 | 8.6 | -7.0 | 30 | 1.3 | 30 | 2.039 | 15.2 | 7.9 | 11 | 6.8 | 30 | 2.067 | 14.7 | 9.0 | 10 | 5.7 | 30 | 2.040 | 15.6 | 6.8 | 20 | 5.6 |
| 750 | 30 | 2.576 | 13.2 | 4.6 | 10 | 7.0 | 30 | 2.549 | 6.6 | -11.7 | 31 | 3.7 | 30 | 2.584 | 12.3 | 4.2 | 11 | 6.2 | 30 | 2.611 | 11.9 | 5.2 | 10 | 5.6 | 30 | 2.580 | 12.8 | 3.9 | 21 | 3.4 |
| 700 | 30 | 3.153 | 10.1 | 1.0 | 09 | 7.3 | 30 | 3.112 | 3.7 | -15.5 | 30 | 5.4 | 30 | 3.160 | 9.0 | 9.0 | 10 | 5.8 | 30 | 3.186 | 8.5 | 1.2 | 09 | 5.4 | 30 | 3.162 | 9.3 | -3.21 | 2.5 | |
| 650 | 30 | 3.761 | 6.9 | -2.7 | 09 | 7.2 | 30 | 3.710 | 1.0 | -20.2 | 30 | 7.0 | 30 | 3.770 | 5.5 | -3.6 | 09 | 5.6 | 30 | 3.796 | 5.2 | -2.8 | 09 | 5.6 | 30 | 3.773 | 5.5 | -3.1 | 2.1 | 1.9 |
| 600 | 30 | 4.421 | 1.7 | -7.5 | 10 | 7.3 | 30 | 4.369 | -3.9 | -21.9 | 30 | 30 | 4.420 | 1.5 | -6.3 | 09 | 5.8 | 30 | 4.445 | 1.2 | -5.9 | 09 | 5.6 | 30 | 4.421 | 1.7 | -7.0 | 2.0 | 1.9 | |
| 550 | 30 | 5.121 | -6.6 | -13.3 | 09 | 7.1 | 30 | 5.032 | -7.2 | -25.8 | 29 | 10.4 | 30 | 5.117 | -2.5 | -9.4 | 09 | 6.4 | 30 | 5.140 | -3.0 | -12.4 | 09 | 5.8 | 30 | 5.119 | -2.6 | -12.0 | 2.1 | 3.7 |
| 500 | 30 | 5.878 | -4.5 | -18.0 | 09 | 5.3 | 30 | 5.767 | -11.9 | -28.6 | 29 | 12.0 | 30 | 5.867 | -6.8 | -16.7 | 07 | 5.6 | 30 | 5.890 | -7.4 | -19.4 | 08 | 4.7 | 30 | 5.869 | -7.0 | -18.6 | 2.1 | 5.0 |
| 450 | 30 | 6.700 | -9.2 | -23.9 | 10 | 4.9 | 30 | 6.565 | -17.4 | -34.3 | 29 | 13.6 | 30 | 6.683 | -11.5 | -24.5 | 07 | 5.8 | 30 | 6.703 | -12.1 | -26.1 | 08 | 5.3 | 30 | 6.684 | -11.9 | -23.4 | 2.1 | 6.4 |
| 400 | 30 | 7.602 | -14.8 | -29.7 | 10 | 4.1 | 30 | 7.436 | -24.1 | -38.9 | 29 | 14.9 | 30 | 7.576 | -17.2 | -33.6 | 06 | 5.4 | 30 | 7.594 | -18.1 | -32.5 | 07 | 5.4 | 30 | 7.575 | -17.9 | -29.1 | 2.2 | 7.2 |
| 350 | 30 | 8.603 | -21.7 | -36.7 | 10 | 3.1 | 30 | 8.390 | -31.4 | -44.9 | 29 | 17.1 | 30 | 8.564 | -24.3 | -39.4 | 05 | 4.9 | 30 | 8.581 | -25.1 | -39.6 | 06 | 5.9 | 30 | 8.564 | -25.7 | -37.7 | 2.3 | 8.3 |
| 300 | 30 | 9.717 | -25.9 | -44.4 | 09 | 1.1 | 3 | | | | | | | | | | | | | | | | | | | | | | | |

| MONTGOMERY, ALA. | | | | * NANTUCKET, MASS. | | | | NASHVILLE, TENN. | | | | * NOME, ALASKA | | | | NORTH PLATTE, NEBR. | | | | | | | | | | | | | | |
|------------------|----|------|-------|--------------------|----|-----|----|------------------|-------|-------|----|----------------|----|------|-------|---------------------|----|------|----|------|-------|-------|----|------|----|------|-------|-------|----|------|
| 1012 MB | | | | 1017 MB | | | | 997 MB | | | | 1015 MB | | | | 918 MB | | | | | | | | | | | | | | |
| SURFACE | 30 | 57 | 20.6 | 19.6 | 06 | .5 | 30 | 13 | 16.5 | 13.7 | 26 | .6 | 30 | .80 | 19.6 | 17.9 | 15 | 1.1 | 30 | 5 | .9 | -3.5 | 35 | 1.8 | 30 | 847 | 9.5 | 5.6 | 01 | .6 |
| 1000 | 30 | 609 | 22.2 | 20.9 | 10 | .8 | 30 | 154 | 16.5 | 12.4 | 25 | 2.0 | 30 | 157 | | | | | 30 | 120 | 2.4 | -3.4 | 35 | 2.1 | 30 | 126 | | | | |
| 950 | 30 | 860 | 22.4 | 17.9 | 15 | 1.3 | 30 | 591 | 15.6 | 9.8 | 28 | 4.7 | 30 | 603 | 21.6 | 16.0 | 22 | 5.4 | 30 | 534 | .7 | -5.6 | 01 | 3.6 | 30 | 558 | | | | |
| 900 | 30 | 1079 | 19.7 | 14.2 | 15 | 2.0 | 30 | 1049 | 13.5 | 6.7 | 28 | 9.0 | 30 | 1072 | 19.0 | 13.1 | 24 | 5.9 | 30 | 966 | -1.7 | -9.0 | 01 | 3.1 | 30 | 1010 | 12.7 | 6.1 | 25 | 1.2 |
| 850 | 30 | 1570 | 15.7 | 10.8 | 16 | 1.8 | 30 | 1571 | 11.1 | 2.6 | 22 | 7.4 | 30 | 1581 | 15.0 | 10.3 | 25 | 6.2 | 30 | 1420 | -3.4 | -13.6 | 36 | 4.1 | 30 | 1492 | 18.1 | 1.8 | 24 | 3.6 |
| 800 | 30 | 2085 | 14.1 | 6.0 | 16 | 1.8 | 30 | 2033 | 8.6 | -3 | 17 | 10 | 30 | 2074 | 8.9 | 6.1 | 26 | 6.3 | 30 | 1890 | 5.0 | -15.5 | 35 | 7.9 | 30 | 2001 | 11.7 | 2.9 | 25 | 1.1 |
| 750 | 30 | 2627 | 10.7 | 1.0 | 17 | 1.8 | 30 | 2556 | 6.4 | -5.9 | 28 | 11.5 | 30 | 2614 | 10.0 | 1.2 | 25 | 6.4 | 30 | 2402 | -7.6 | -19.3 | 34 | 6.0 | 30 | 2538 | 8.7 | -4.9 | 26 | 4.8 |
| 700 | 30 | 3220 | 8.2 | -1.6 | 17 | 1.6 | 30 | 3129 | 3.7 | -10.3 | 28 | 12.5 | 30 | 3185 | 7.0 | -4.5 | 25 | 6.2 | 30 | 2936 | -10.5 | -22.5 | 33 | 5.6 | 30 | 3105 | 5.2 | -7.8 | 26 | 7.1 |
| 650 | 30 | 3809 | 4.8 | -6.6 | 15 | .9 | 30 | 3728 | 1.1 | -13.8 | 28 | 13.4 | 30 | 3792 | 3.9 | -9.3 | 26 | 6.0 | 30 | 3503 | -13.6 | -25.6 | 32 | 6.7 | 30 | 3707 | 2.1 | -11.7 | 26 | 8.6 |
| 600 | 30 | 4454 | 1.3 | -12.0 | 21 | .3 | 30 | 4368 | -2.2 | -19.4 | 28 | 14.8 | 30 | 4438 | 3.9 | -13.0 | 26 | 6.5 | 30 | 4108 | -10.8 | -28.4 | 31 | 7.1 | 30 | 4349 | -1.6 | -14.8 | 25 | 9.5 |
| 550 | 30 | 5154 | | | | | 30 | 5058 | -3.2 | -23.5 | 28 | 16.3 | 30 | 5128 | 7.9 | -18.0 | 26 | 6.8 | 30 | 4808 | -15.6 | -31.7 | 30 | 7.9 | 30 | 5001 | 11.7 | 2.9 | 25 | 11.5 |
| 500 | 30 | 5904 | -6.8 | -21.6 | 29 | 1.0 | 30 | 5794 | -10.0 | -27.6 | 28 | 16.3 | 30 | 5878 | -8.0 | -22.0 | 26 | 7.9 | 30 | 5454 | -25.4 | -35.8 | 30 | 8.9 | 30 | 5776 | -10.7 | -25.2 | 25 | 13.1 |
| 450 | 30 | 6719 | -12.0 | -28.0 | 28 | 1.1 | 30 | 6595 | -16.4 | -31.1 | 28 | 16.9 | 30 | 6689 | -13.0 | -26.0 | 26 | 9.5 | 30 | 6211 | -30.7 | -40.7 | 30 | 9.1 | 30 | 6578 | -16.3 | -30.8 | 25 | 14.4 |
| 400 | 30 | 7610 | -18.0 | -34.6 | 32 | 1.9 | 30 | 7470 | -22.6 | -36.9 | 28 | 17.0 | 30 | 7577 | -18.9 | -33.6 | 27 | 10.0 | 30 | 7038 | -36.2 | -43.5 | 30 | 10.6 | 30 | 7453 | -22.8 | -37.0 | 25 | 17.3 |
| 350 | 30 | 8597 | -25.0 | -41.9 | 31 | 2.8 | 30 | 8439 | -29.6 | -43.4 | 28 | 17.2 | 30 | 8562 | -25.0 | -40.9 | 27 | 11.7 | 30 | 7956 | -42.2 | -44.2 | 30 | 11.5 | 30 | 8428 | -29.7 | -43.7 | 25 | 21.2 |
| 300 | 30 | 9496 | -32.0 | -47.8 | 30 | 3.6 | 30 | 9346 | -37.7 | -49.9 | 28 | 17.5 | 30 | 9431 | -34.3 | -48.3 | | | | | | | | | | | | | | |

Average monthly values

SEPTEMBER 1970

[illegible]

| PONDARE, CAROLINE IS.
1005 MB | | | | | | | | | | PLANTATION, MAINE
1015 MB | | | | | | | | | | * | QUILLAYUTE, WASH.
1011 MB | | | | | | | | | | RAPID CITY, S. DAK.
906 MB | | | | | | | | | | ST CLOUD, MINN.
977 MB | | | | | | | | | |
|----------------------------------|--|----|--------|-------|-------|----|------|----|--------|------------------------------|-------|----|------|----|--------|-------|-------|----|------|----|------------------------------|-------|-------|-----|------|----|--------|-------|-------|------|-------------------------------|--|--|--|--|--|--|--|--|--|---------------------------|--|--|--|--|--|--|--|--|--|
| SURFACE | | 30 | 39 | 28.4 | 24.2 | 08 | 2.0 | 30 | 20 | 12.6 | 8.8 | 26 | 1.6 | 30 | 58 | 9.6 | 7.6 | 12 | .5 | 30 | 966 | 8.9 | 2.7 | 2.9 | 2.1 | 30 | 316 | 10.9 | 5.2 | 1.8 | 1.1 | | | | | | | | | | | | | | | | | | | |
| 1000 | | 30 | 82 | 27.2 | 21.8 | 08 | 2.2 | 30 | 141 | 13.2 | 9.1 | 27 | 2.0 | 30 | 150 | 10.9 | 6.9 | 08 | .4 | 30 | 121 | | | | | 30 | 119 | | | | | | | | | | | | | | | | | | | | | | | |
| 950 | | 30 | 535 | 24.1 | 18.6 | 08 | 3.5 | 30 | 574 | 12.8 | 6.9 | 28 | 3.8 | 30 | 579 | 10.1 | 3.8 | 28 | 1.2 | 30 | 553 | | | | | 30 | 550 | 13.1 | 9.2 | 2.3 | 2.1 | | | | | | | | | | | | | | | | | | | |
| 900 | | 30 | 1007 | 20.8 | 14.9 | 11 | 4.8 | 30 | 1027 | 10.7 | 4.0 | 28 | 4.9 | 30 | 1027 | 8.0 | .3 | 27 | 1.8 | 30 | 1004 | | | | | 30 | 1005 | 12.0 | | | | | | | | | | | | | | | | | | | | | | |
| 850 | | 30 | 1447 | 15.2 | 11.1 | 11 | 6.0 | 30 | 1502 | 9.9 | 1.3 | 28 | 6.0 | 30 | 1487 | 6.6 | -6.6 | 28 | 1.3 | 30 | 1439 | 13.1 | -8.8 | 2.9 | 2.4 | 30 | 1448 | 9.9 | 1.1 | 6.7 | 5.7 | | | | | | | | | | | | | | | | | | | |
| 800 | | 30 | 2,016 | 15.2 | 7.8 | 10 | 5.1 | 30 | 2,003 | 7.3 | -2.2 | 28 | 9.7 | 30 | 1,992 | 4.3 | -7.5 | 27 | 4.4 | 30 | 1,993 | 10.2 | -3.0 | 2.9 | 5.1 | 30 | 1,985 | 7.7 | -4.6 | 6.8 | 7.2 | | | | | | | | | | | | | | | | | | | |
| 750 | | 30 | 2,561 | 12.6 | 4.2 | 10 | 5.6 | 30 | 2,534 | 5.5 | -5.3 | 28 | 10.5 | 30 | 2,516 | 1.9 | -10.8 | 28 | 6.0 | 30 | 2,526 | 6.4 | -5.7 | 2.8 | 5.4 | 30 | 2,515 | 5.1 | -7.2 | 2.7 | 8.3 | | | | | | | | | | | | | | | | | | | |
| 700 | | 30 | 3,137 | 9.4 | .6 | 10 | 6.3 | 30 | 3,095 | 2.8 | -10.3 | 28 | 11.4 | 30 | 3,069 | -1.0 | -14.7 | 29 | 7.3 | 30 | 3,088 | 3.0 | -9.9 | 2.7 | 6.4 | 30 | 3,075 | 2.3 | -9.8 | 2.7 | 10.3 | | | | | | | | | | | | | | | | | | | |
| 650 | | 30 | 3,749 | 6.2 | -3.2 | 10 | 6.9 | 30 | 3,693 | .2 | -15.2 | 28 | 12.5 | 30 | 3,657 | -4.0 | -17.9 | 29 | 8.6 | 30 | 3,684 | -4.4 | -12.0 | 2.6 | 8.6 | 30 | 3,671 | -7.7 | -14.1 | 2.7 | 12.4 | | | | | | | | | | | | | | | | | | | |
| 600 | | 30 | 4,402 | 2.8 | -7.1 | 10 | 7.3 | 30 | 4,330 | -3.3 | -19.0 | 28 | 13.5 | 30 | 4,285 | -7.3 | -21.7 | 29 | 11.9 | 30 | 4,320 | -3.8 | -16.4 | 2.6 | 11.0 | 30 | 4,306 | -4.0 | -19.5 | 2.7 | 14.1 | | | | | | | | | | | | | | | | | | | |
| 550 | | 30 | 5,101 | -1.1 | -11.4 | 10 | 6.9 | 30 | 5,013 | -7.2 | -22.9 | 28 | 14.8 | 30 | 4,967 | -11.3 | -25.7 | 27 | 12.7 | 30 | 5,002 | -3.3 | -20.7 | 2.6 | 12.9 | 30 | 4,988 | -8.1 | -23.1 | 2.7 | 16.3 | | | | | | | | | | | | | | | | | | | |
| 500 | | 30 | 5,856 | -5.4 | -15.4 | 09 | 6.3 | 30 | 5,750 | -12.0 | -27.4 | 28 | 15.6 | 30 | 5,683 | -19.5 | -30.1 | 29 | 17.9 | 30 | 5,723 | -13.9 | -26.4 | 2.5 | 14.0 | 30 | 5,722 | -12.8 | -27.0 | 2.7 | 17.4 | | | | | | | | | | | | | | | | | | | |
| 450 | | 30 | 6,676 | -9.8 | -21.8 | 09 | 5.8 | 30 | 6,548 | -17.3 | -32.2 | 28 | 16.0 | 30 | 6,467 | -28.8 | -34.5 | 29 | 15.8 | 30 | 6,527 | -18.9 | -32.1 | 2.6 | 16.4 | 30 | 6,518 | -23.1 | -31.8 | 2.7 | 18.8 | | | | | | | | | | | | | | | | | | | |
| 400 | | 30 | 7,576 | -15.1 | -28.6 | 09 | 4.5 | 30 | 7,420 | -23.5 | -36.8 | 28 | 16.4 | 30 | 7,323 | -28.2 | -39.5 | 29 | 17.1 | 30 | 7,394 | -25.2 | -37.8 | 2.5 | 18.8 | 30 | 7,388 | -24.1 | -38.4 | 2.7 | 21.1 | | | | | | | | | | | | | | | | | | | |
| 350 | | 30 | 8,574 | -22.1 | -35.0 | 09 | 4.2 | 30 | 8,386 | -30.4 | -43.5 | 28 | 17.3 | 30 | 8,271 | -35.1 | -44.7 | 29 | 19.1 | 30 | 8,352 | -32.6 | -43.8 | 2.5 | 21.2 | 30 | 8,352 | -31.1 | -43.7 | 2.6 | 23.8 | | | | | | | | | | | | | | | | | | | |
| 300 | | 30 | 9,687 | -30.4 | -44.4 | 09 | 3.5 | 30 | 9,461 | -38.4 | -50.3 | 28 | 18.3 | 30 | 9,326 | -42.7 | | 30 | 19.2 | 30 | 9,416 | -40.9 | -47.4 | 2.5 | 21.8 | 30 | 9,424 | -39.4 | -48.7 | 2.6 | 26.4 | | | | | | | | | | | | | | | | | | | |
| 250 | | 30 | 10,955 | -40.6 | -52.9 | 07 | 2.8 | 30 | 10,693 | -46.4 | | 28 | 19.6 | 30 | 10,535 | -50.3 | | 29 | 20.8 | 30 | 10,635 | -48.8 | | 25 | 26.2 | 30 | 10,648 | -48.1 | | 30.7 | | | | | | | | | | | | | | | | | | | | |
| 200 | | 30 | 12,243 | -53.1 | | 02 | 2.5 | 30 | 12,030 | -53.7 | | 29 | 20.3 | 30 | 11,872 | -57.6 | | 28 | 19.7 | 30 | 11,959 | -56.9 | | 26 | 28.5 | 30 | 11,959 | -54.7 | | 32.6 | | | | | | | | | | | | | | | | | | | | |
| 175 | | 30 | 13,281 | -60.0 | | 30 | 2.0 | 30 | 13,068 | -67.1 | | 29 | 19.6 | 30 | 12,827 | -55.8 | | 28 | 19.3 | 30 | 12,940 | -55.3 | | 25 | 31.5 | 30 | 12,945 | -53.7 | | 31.5 | | | | | | | | | | | | | | | | | | | | |
| 150 | | 30 | 14,225 | -67.8 | | 34 | 3.5 | 30 | 13,971 | -59.5 | | 28 | 17.9 | 30 | 13,806 | -57.2 | | 28 | 18.6 | 29 | 13,915 | -58.3 | | 25 | 26.4 | 30 | 13,916 | -58.9 | | 26.9 | | | | | | | | | | | | | | | | | | | | |
| 125 | | 30 | 15,303 | -75.0 | | 29 | .9 | 30 | 15,105 | -61.8 | | 28 | 15.2 | 30 | 14,957 | -58.1 | | 28 | 15.8 | 28 | 15,058 | -59.9 | | 26 | 18.7 | 30 | 15,054 | -60.8 | | 21.0 | | | | | | | | | | | | | | | | | | | | |
| 100 | | 30 | 16,593 | -87.8 | | 08 | 4.1 | 30 | 16,487 | -61.1 | | 28 | 12.5 | 29 | 16,361 | -58.6 | | 28 | 12.3 | 28 | 16,442 | -61.2 | | 26 | 12.2 | 30 | 16,440 | -61.1 | | 14.6 | | | | | | | | | | | | | | | | | | | | |
| 80 | | 30 | 17,875 | -92.9 | | 09 | 9.1 | 30 | 17,878 | -59.2 | | 28 | 8.0 | 29 | 17,763 | -58.3 | | 28 | 9.3 | 28 | 17,829 | -60.4 | | 26 | 7.8 | 28 | 17,835 | -59.1 | | 7.6 | | | | | | | | | | | | | | | | | | | | |
| 60 | | 30 | 18,666 | -67.9 | | 09 | 11.8 | 30 | 18,719 | -57.6 | | 28 | 6.3 | 29 | 18,608 | -57.5 | | 28 | 8.0 | 28 | 18,664 | -58.9 | | 26 | 6.2 | 28 | 18,674 | -58.2 | | 8.2 | | | | | | | | | | | | | | | | | | | | |
| 40 | | 30 | 19,593 | -67.5 | | 09 | 15.5 | 30 | 19,596 | -55.7 | | 28 | 4.9 | 29 | 19,496 | -55.7 | | 27 | 7.3 | 29 | 19,569 | -56.9 | | 26 | 4.4 | 28 | 19,555 | -56.4 | | 5.7 | | | | | | | | | | | | | | | | | | | | |
| 20 | | 30 | 20,701 | -60.9 | | 09 | 22.6 | 30 | 20,662 | -54.2 | | 28 | 2.9 | 29 | 20,738 | -56.2 | | 28 | 6.2 | 28 | 20,796 | -55.6 | | 26 | 2.5 | 28 | 20,812 | -55.8 | | 3.7 | | | | | | | | | | | | | | | | | | | | |
| 00 | | 30 | 22,079 | -60.7 | | 09 | 29.6 | 28 | 22,302 | -52.6 | | 29 | 2.0 | 28 | 22,160 | -54.2 | | 28 | 4.8 | 28 | 22,224 | -54.0 | | 27 | 2.5 | 28 | 22,246 | -53.1 | | 4.9 | | | | | | | | | | | | | | | | | | | | |
| -20 | | 30 | 23,896 | -54.9 | | 09 | 35.5 | 25 | 24,178 | -49.9 | | 35 | .5 | 28 | 24,012 | -52.0 | | 27 | 4.6 | 27 | 24,082 | -51.7 | | 31 | 1.1 | 27 | 24,108 | -51.0 | | 3.0 | | | | | | | | | | | | | | | | | | | | |
| -40 | | 30 | 25,070 | -51.8 | | 09 | 36.1 | 23 | 25,308 | -48.6 | | 35 | 1.3 | 27 | 25,196 | -50.6 | | 27 | 4.1 | 27 | 25,267 | -50.7 | | 34 | 1.1 | 27 | 25,298 | -49.6 | | 3.7 | | | | | | | | | | | | | | | | | | | | |
| -60 | | 30 | 26,532 | -47.6 | | 09 | 29.9 | 22 | 26,844 | -47.4 | | 35 | 2.3 | 26 | 26,598 | -48.9 | | 27 | 4.2 | 26 | 26,730 | -49.2 | | 04 | 7.22 | 26 | 26,768 | -48.2 | | 3.6 | | | | | | | | | | | | | | | | | | | | |
| -80 | | 30 | 28,345 | -43.6 | | 09 | 11.6 | 15 | 28,792 | -44.6 | | 36 | 2.0 | 26 | 28,554 | -47.7 | | 27 | 3.4 | 22 | 28,625 | -47.3 | | 02 | 1.4 | 12 | 28,708 | -46.5 | | 10 | | | | | | | | | | | | | | | | | | | | |
| -100 | | 30 | 31,210 | -39.5 | | 10 | 5.7 | 9 | 31,493 | -41.1 | | | | 23 | 31,212 | -44.3 | | 28 | 2.5 | 21 | 31,216 | -43.9 | | 06 | 1.7 | 6 | 31,427 | -41.8 | | | | | | | | | | | | | | | | | | | | | | |
| -120 | | 30 | 33,652 | -37.5 | | | | | | | | | | 19 | 33,675 | -41.8 | | 01 | 1.8 | 11 | 33,714 | -41.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -140 | | 30 | | | | | | | | | | | | 6 | 36,048 | -37.5 | | | | 36 | 36,101 | -36.2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| ST PAUL IS., ALASKA
1011 MB | | | | | | | | | | SALEM, ILL.
996 MB | | | | | | | | | | SALEM, OREG.
1011 MB | | | | | | | | | | SALT LAKE CITY, UTAH
873 MB | | | | | | | | | | SAN DIEGO, CALIF.
997 MB | | | | | | | | | |
|--------------------------------|----|-------|-------|-------|------|-----|------|-------|-------|-----------------------|----|----|------|-------|-------|-------|------|------|-------|-------------------------|-------|-------|------|------|------|-------|-------|-------|-----|--------------------------------|--|--|--|--|--|--|--|--|--|-----------------------------|--|--|--|--|--|--|--|--|--|
| SURFACE | 30 | 10 | 6.3 | 4.4 | 0.3 | 1.7 | 3.0 | 7.4 | 17.7 | 16.2 | 20 | 9 | 30 | 61 | 9.4 | 5.0 | 19 | 1.0 | 29 | 1.288 | 9.5 | 2.0 | 14 | 2.5 | 30 | 124 | 16.5 | 11.3 | 6.3 | 1.0 | | | | | | | | | | | | | | | | | | | |
| 1000 | 30 | 99 | 8.0 | 3.8 | 0.4 | 3.9 | 30 | 140 | | | | 9 | 30 | 152 | 11.7 | 6.7 | 19 | 5.29 | 139 | | | | | 30 | 95 | | | | | | | | | | | | | | | | | | | | | | | | |
| 950 | 30 | 918 | 3.6 | 0.8 | 0.4 | 4.4 | 30 | 582 | 19.3 | 14.5 | 24 | 9 | 30 | 384 | 11.8 | 4.0 | 29 | 6.29 | 575 | | | | | 30 | 535 | 19.5 | 5.3 | 6.7 | | | | | | | | | | | | | | | | | | | | | |
| 900 | 30 | 555 | 1.2 | -0.9 | 0.5 | 4.5 | 30 | 1047 | 17.7 | 11.3 | 26 | 8 | 30 | 1034 | 10.4 | 1.2 | 27 | 1.4 | 1029 | | | | | 30 | 1003 | 21.3 | 0.0 | 0.4 | 7 | | | | | | | | | | | | | | | | | | | | |
| 850 | 30 | 1414 | 1.4 | -7 | -5.9 | 0.8 | 30 | 1535 | 15.2 | 7.4 | 26 | 8 | 30 | 1007 | 8.1 | -2.8 | 26 | 2.5 | 1033 | 13.0 | -1.1 | 15 | 2.2 | 30 | 1496 | 19.8 | -3.1 | 1.5 | 1.3 | | | | | | | | | | | | | | | | | | | | |
| 800 | 30 | 1397 | -0.7 | -9.9 | 0.6 | 3.8 | 30 | 1617 | 11.2 | -3.6 | 25 | 9 | 30 | 1007 | 6.1 | -6.4 | 30 | 1.5 | 1028 | 11.2 | -4.6 | 20 | 6.2 | 30 | 2011 | 10.0 | -5.0 | 7.7 | 1.3 | | | | | | | | | | | | | | | | | | | | |
| 750 | 30 | 2408 | -6.2 | -12.8 | 0.5 | 2.9 | 30 | 2587 | 10.0 | -1.1 | 25 | 9 | 30 | 2233 | 3.9 | -9.8 | 28 | 4.7 | 2551 | 7.9 | -7.3 | 25 | 2.6 | 30 | 2561 | 13.6 | -7.4 | 4.1 | 1.7 | | | | | | | | | | | | | | | | | | | | |
| 700 | 30 | 2494 | -6.5 | -15.5 | 0.5 | 1.9 | 30 | 3158 | 7.2 | -5.4 | 25 | 8 | 30 | 3091 | 1.1 | -13.1 | 29 | 6.0 | 29 | 3.116 | 4.2 | -10.1 | 27 | 4.4 | 30 | 3137 | 9.9 | -9.3 | 1.9 | | | | | | | | | | | | | | | | | | | | |
| 650 | 30 | 3526 | -9.4 | -18.6 | 0.6 | 1.8 | 30 | 3764 | 4.0 | -10.1 | 25 | 9 | 30 | 3684 | -2.3 | -16.8 | 30 | 7.9 | 29 | 3.715 | -3 | -13.6 | 28 | 6.7 | 30 | 3749 | 5.5 | -13.2 | 2.1 | | | | | | | | | | | | | | | | | | | | |
| 600 | 30 | 4141 | -12.6 | -22.5 | 0.5 | 1.7 | 30 | 4411 | -3 | -13.9 | 25 | 9 | 30 | 4315 | -5.7 | -20.4 | 30 | 10.4 | 29 | 4.352 | -3.8 | -17.1 | 27 | 8.4 | 30 | 4400 | 2.5 | -17.9 | 2.8 | | | | | | | | | | | | | | | | | | | | |
| 550 | 30 | 4430 | -16.2 | -27.1 | 0.5 | 1.9 | 30 | 5103 | -3.6 | -20.6 | 25 | 10 | 30 | 4992 | -9.8 | -24.8 | 30 | 11.6 | 29 | 5.033 | -8.1 | -22.2 | 26 | 10.0 | 30 | 5098 | -2.1 | -23.1 | 2.8 | | | | | | | | | | | | | | | | | | | | |
| 500 | 30 | 5512 | -20.7 | -31.4 | 0.9 | 1.9 | 30 | 5850 | -8.1 | -25.2 | 25 | 10 | 30 | 5784 | -14.5 | -29.6 | 30 | 13.3 | 29 | 5.784 | -10.4 | -27.7 | 27 | 10.0 | 30 | 5858 | -1.5 | -27.9 | 2.8 | | | | | | | | | | | | | | | | | | | | |
| 450 | 30 | 6428 | -24.8 | -37.1 | 1.8 | 1.8 | 30 | 6817 | -19.1 | -29.3 | 25 | 10 | 30 | 6812 | -19.7 | -34.4 | 30 | 15.2 | 29 | 5.561 | -18.5 | -33.3 | 27 | 12.3 | 30 | 6858 | -13.3 | -32.9 | 4.7 | | | | | | | | | | | | | | | | | | | | |
| 400 | 30 | 74128 | -31.6 | -40.1 | 2.1 | 1.1 | 30 | 7545 | -19.7 | -34.0 | 25 | 14 | 30 | 7374 | -26.4 | -38.5 | 29 | 16.3 | 29 | 7.428 | -24.9 | -39.2 | 27 | 14.7 | 30 | 7542 | -20.3 | -38.4 | 2.9 | | | | | | | | | | | | | | | | | | | | |
| 350 | 30 | 8102 | -38.5 | -44.1 | 2.2 | 1.5 | 29 | 8255 | -26.6 | -40.8 | 25 | 14 | 30 | 8329 | -33.4 | -43.6 | 29 | 16.3 | 29 | 8.338 | -32.2 | -46.0 | 27 | 15.3 | 30 | 8520 | -27.8 | -44.6 | 2.8 | | | | | | | | | | | | | | | | | | | | |
| 300 | 30 | 9101 | -46.1 | 25 | 2.7 | 29 | 9617 | -34.9 | -47.3 | 27 | 16 | 30 | 9390 | -41.5 | -48.4 | 29 | 26.2 | 29 | 9.455 | -40.2 | -51.7 | 27 | 17.0 | 30 | 9605 | -30.4 | -50.3 | 27 | | | | | | | | | | | | | | | | | | | | | |
| 250 | 30 | 10296 | -51.9 | 26 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

See reference note at end of table

Average monthly value

SAN JUAN, P. R.

* SAULT STE MARIE, M

Y A, A L A S K A

SHREVEPORT, LA.

SPOKANE, WASH.

SWAN ISLAND, N. I.

TAMPA, FLA.

ICPEKA, KANS.

TRUK, CAROLINE IS

* TUCSON, ARIZ.

• VANDENBERG AFB, CALIF

VICTORIA, TEXAS

NAKE IS., PACIFIC

* VALLEPS IS., VA. N

WASHINGTON DULLES INT. AP

See reference note at end of table

Average monthly values

SEPTEMBER 1970

YUCCA FLAT, NEV.
881 MB

YJMA, ARIZ.
995 MB

the average monthly station pressures for the month of record, corrected to the height of the

refers to those of dynamic height only. Although the number of temperature observations at any given pressure surface is usually the same as for height, it is possible for temperature to be missing for one or more pressure surfaces of some observations. Dew Point average is limited to those observations with temperatures warmer than -40°C . Observations of wind speed and direction are sometimes lost due to limiting angles, i.e., elevation angles less than 6° above the horizon, or any obstruction above the horizon. The temperature and wind values are based on 15 or more observations at the surface or 5 observations at a standard pressure level for temperature and 10 for wind. Dew Point data are not published for standard pressure surfaces for which less than 5 observations are available. Dew Point data are computed and expressed on the basis of vapor pressure over water. Unless otherwise indicated, they are obtained from carbon hygrographs. These average values for standard pressure surfaces were obtained by rawinsondes; dynamic height (geopotential) in units of .98 dynamic meter, temperature and dew point in degrees Celsius, and resultant winds in tens of degrees and meters per second.

* Rawinsondes at this station were equipped with hypsometers to permit more accurate evaluations of pressure, and consequently height, at pressures lower than 50 mb. These rawinsondes were carried aloft by special high altitude balloons, in an effort to consistently reach higher altitudes.

† Dew Point temperatures are based on a minimum of 5 observations. Therefore, due to the lesser number of Dew Point observations at the surface and higher levels comparison with dry-bulb temperatures should be made with care. Dew Point temperatures replaced Relative Humidity January 1967.

SOLAR RADIATION INTENSITIES

Tabulated in langleys per minute on a surface normal to the direction of the sun.

SEPTEMBER 1970

| Sun's zenith distance | | | | | | | | | |
|-----------------------|-------|-------|-------|--------|-------|-------|-------|-------|-------|
| Date | A. M. | | | | * | P. M. | | | |
| | 78.7° | 75.7° | 70.7° | 60.0° | | 60.0° | 70.7° | 75.7° | 78.7° |
| TUCSON, ARIZ. | | | | | | | | | |
| Air mass | | | | | | | | | |
| | 4.56 | 3.65 | 2.74 | 1.83 | * | 1.83 | 2.74 | 3.65 | 4.56 |
| SEPT. | | | | | | | | | |
| 1----- | 0.41 | 0.57 | 0.74 | 0.96 | 1.26 | 0.93 | 0.74 | 0.59 | 0.44 |
| 2----- | .57 | .68 | .78 | .97 | 1.25 | 1.02 | .74 | .58 | ---- |
| 3----- | .33 | .57 | .65 | .85 | 1.08 | ----- | ----- | ----- | ----- |
| 4----- | ----- | ----- | ----- | ----- | 1.19 | ----- | ----- | ----- | ----- |
| 5----- | ----- | ----- | ----- | ----- | 1.24 | .94 | .87 | .76 | .67 |
| 6----- | ----- | ----- | .76 | .99 | 1.21 | ----- | ----- | .63 | ----- |
| 7----- | .58 | .68 | .84 | 1.03 | 1.27 | ----- | ----- | ----- | ----- |
| 8----- | ----- | ----- | .73 | .92 | ----- | ----- | ----- | ----- | .70 |
| 9----- | .69 | .81 | .95 | 1.09 | 1.28 | 1.10 | .95 | .85 | .73 |
| 10----- | .81 | .98 | 1.01 | 1.19 | 1.39 | 1.24 | 1.11 | 1.01 | .92 |
| 11----- | .93 | 1.03 | 1.14 | 1.28 | 1.46 | 1.23 | 1.11 | 1.00 | .91 |
| 12----- | .93 | 1.03 | 1.14 | 1.27 | 1.43 | 1.24 | 1.09 | 1.00 | .89 |
| 13----- | ----- | ----- | ----- | ----- | ----- | ----- | .92 | ----- | .67 |
| 14----- | ----- | ----- | .84 | 1.00 | 1.22 | .97 | .81 | .70 | .59 |
| 15----- | .59 | ----- | .80 | 1.01 | 1.16 | ----- | ----- | ----- | ----- |
| 16----- | .73 | .83 | .98 | 1.11 | 1.31 | 1.15 | .98 | .87 | .77 |
| 17----- | .84 | .90 | 1.03 | 1.19 | 1.35 | 1.19 | 1.03 | .92 | .81 |
| 18----- | .86 | .97 | 1.09 | 1.21 | 1.39 | 1.25 | 1.05 | .94 | .83 |
| 19----- | .88 | .99 | 1.10 | 1.25 | 1.35 | 1.21 | 1.06 | .95 | .86 |
| 20----- | .92 | 1.00 | 1.11 | 1.23 | 1.40 | 1.26 | 1.11 | .98 | .87 |
| 21----- | .89 | .99 | 1.08 | 1.24 | 1.41 | 1.23 | 1.08 | .99 | .87 |
| 22----- | D .61 | D .72 | D .87 | D 1.09 | 1.33 | 1.15 | D .95 | D .82 | D .72 |
| 23----- | .87 | .97 | 1.09 | 1.24 | 1.29 | D .98 | D .81 | D .64 | D .53 |
| 24----- | ----- | ----- | ----- | ----- | ----- | 1.19 | ----- | ----- | ----- |
| 25----- | .83 | .92 | 1.03 | 1.19 | 1.35 | 1.15 | .96 | .85 | .73 |
| 26----- | .77 | .86 | .99 | 1.14 | 1.32 | ----- | ----- | ----- | ----- |
| AVER- | | | | | | | | | |
| AGES | 0.74 | 0.86 | 0.94 | 1.11 | 1.30 | 1.14 | 0.96 | 0.84 | 0.75 |

| | | | | | | | | | |
|--------------|----------|--------|---------|---------|---------|---------|---------|--------|--------|
| OMAHA, NEBR. | | | | | | | | | |
| | Air mass | | | | | | | | |
| | 4.78 | 3.82 | 2.87 | 1.91 | * | 1.91 | 2.87 | 3.82 | 4.78 |
| SEPT. | | | | | | | | | |
| 6----- | ----- | ----- | ----- | HS 1.01 | ----- | HS .98 | HS .81 | ----- | ----- |
| 7----- | 0.81 | ----- | 1.02 | 1.20 | 1.32 | 1.08 | HS .92 | HS .81 | HS .70 |
| 8----- | ----- | 0.87 | .99 | 1.16 | 1.29 | HS 1.11 | HS .97 | HS .85 | HS .74 |
| 9----- | HS .61 | .73 | HS .89 | ----- | ----- | ----- | ----- | ----- | ----- |
| 10----- | .92 | 1.02 | 1.13 | 1.28 | 1.39 | ----- | ----- | ----- | ----- |
| 11----- | HS .79 | HS .86 | HS 1.00 | HS 1.13 | HS 1.26 | ----- | ----- | ----- | ----- |
| 12----- | ----- | ----- | ----- | ----- | ----- | HS 1.06 | HS .84 | HM .74 | HM .60 |
| 13----- | ----- | ----- | ----- | ----- | ----- | HS 1.19 | ----- | ----- | ----- |
| 14----- | ----- | ----- | ----- | ----- | ----- | HS 1.23 | HS 1.09 | HS .92 | HS .72 |
| 15----- | ----- | ----- | ----- | ----- | 1.28 | 1.17 | HS .99 | HS .88 | .75 |
| 16----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 17----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 18----- | HS .68 | HS .98 | HS 1.16 | HS 1.26 | HS 1.31 | ----- | ----- | ----- | .83 |
| 19----- | HS .84 | HS .94 | HS 1.04 | HS 1.24 | HS 1.31 | ----- | ----- | ----- | .82 |
| 20----- | .85 | .90 | 1.07 | 1.20 | 1.33 | HS 1.20 | HS 1.02 | HS .90 | HS .82 |
| 21----- | .81 | .98 | 1.09 | 1.24 | 1.35 | HS 1.20 | HS 1.06 | HS .93 | ----- |
| 22----- | .89 | .99 | 1.08 | 1.23 | HS 1.31 | HM .96 | ----- | HM .69 | HM .60 |
| AVER- | | | | | | | | | |
| AGES | 0.80 | 0.92 | 1.00 | 1.20 | 1.29 | 1.09 | .94 | .82 | .71 |

1. BEST, INCLUDING SLIGHT HAZE (BD)

2. SLIGHT HAZE - INDETERMINABLE

3. SLIGHT HAZE

4. MODERATE HAZE

5. VALUES CORRESPONDING TO TRUE SOLAR NOON

Langley is the unit used to denote one gram calorie per square centimeter. An explanation of the formula used in computing the air mass values for each station listed above appears

| Date | Sun's zenith distance | | | | | | | | |
|---------------|-----------------------|--------|--------|--------|--------|--------|--------|-------|--------|
| | A. M. | | | | * | P. M. | | | |
| | 78.7° | 75.7° | 70.7° | 60.0° | | 60.0° | 70.7° | 75.7° | 78.7° |
| MADISON, WIS. | | | | | | | | | |
| | Air mass | | | | | | | | |
| | 4.69 | 3.75 | 2.81 | 1.88 | * | 1.88 | 2.81 | 3.75 | 4.69 |
| SEPT. | | | | | | | | | |
| 1---- | S 0.72 | S 0.83 | S 0.96 | S 1.12 | ---- | ---- | ---- | ---- | ---- |
| 2---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| 3---- | ---- | S .91 | S 1.05 | S 1.22 | S 1.34 | S 1.19 | S 1.04 | S .93 | S 0.84 |
| 10---- | S .77 | S .85 | S .98 | S 1.13 | S 1.27 | S 1.13 | S .96 | S .81 | S .67 |
| 11---- | S .67 | S .80 | S .96 | S 1.14 | ---- | ---- | ---- | ---- | ---- |
| 25---- | S .83 | S .91 | S 1.05 | S 1.23 | ---- | ---- | ---- | ---- | ---- |
| 28---- | S .88 | S .97 | S 1.08 | S 1.20 | ---- | ---- | ---- | ---- | ---- |
| 30---- | | | | | | | | | |
| AVER- | | | | | | | | | |
| AGES | 0.77 | 0.87 | 1.01 | 1.17 | 1.30 | 1.16 | 1.00 | 0.87 | 0.78 |

| | | | | | | | | | |
|----------------------|----------|-------|-------|-------|-------|-------|-------|-------|-------|
| ALBUQUERQUE, N. MEX. | | | | | | | | | |
| | Air mass | | | | | | | | |
| | 4.19 | 3.35 | 2.51 | 1.67 | * | 1.67 | 2.51 | 3.35 | 4.19 |
| SEPT. | | | | | | | | | |
| 2----- | 0.62 | 0.70 | ----- | 1.00 | 1.29 | ----- | ----- | ----- | ----- |
| 3----- | .80 | .86 | .99 | 1.16 | 1.36 | 1.18 | ----- | ----- | ----- |
| 4----- | .98 | 1.07 | 1.17 | 1.30 | 1.44 | 1.28 | 1.05 | 0.92 | 0.80 |
| 5----- | .87 | 1.05 | 1.15 | 1.28 | 1.40 | 1.21 | ----- | ----- | .95 |
| 6----- | ----- | ----- | ----- | ----- | 1.38 | 1.27 | 1.12 | 1.01 | .90 |
| 7----- | ----- | ----- | ----- | ----- | 1.24 | ----- | ----- | ----- | ----- |
| 8----- | ----- | ----- | ----- | ----- | 1.32 | ----- | ----- | ----- | ----- |
| 9----- | ----- | ----- | ----- | ----- | ----- | 1.26 | 1.12 | 1.02 | .93 |
| 10----- | ----- | ----- | ----- | ----- | ----- | 1.42 | 1.28 | 1.13 | 1.03 |
| 11----- | .95 | 1.05 | 1.15 | 1.29 | 1.39 | 1.22 | 1.05 | .94 | .83 |
| 12----- | .80 | .91 | 1.02 | 1.19 | 1.28 | ----- | ----- | ----- | ----- |
| 13----- | ----- | ----- | ----- | ----- | 1.17 | ----- | ----- | ----- | ----- |
| 14----- | ----- | ----- | ----- | ----- | 1.00 | 1.31 | ----- | 1.08 | .98 |
| 15----- | ----- | ----- | ----- | ----- | 1.38 | 1.22 | 1.08 | ----- | ----- |
| 16----- | .94 | 1.04 | 1.10 | 1.27 | 1.46 | 1.29 | 1.13 | 1.00 | .91 |
| 17----- | .98 | 1.08 | 1.15 | 1.30 | 1.44 | 1.30 | 1.18 | 1.08 | .96 |
| 18----- | .99 | 1.08 | 1.19 | 1.32 | 1.45 | 1.30 | 1.15 | .99 | .87 |
| 19----- | ----- | ----- | ----- | ----- | 1.47 | 1.31 | 1.18 | 1.06 | .95 |
| 20----- | 1.02 | 1.11 | 1.21 | 1.34 | 1.42 | 1.28 | 1.14 | 1.02 | .92 |
| 21----- | ----- | ----- | ----- | ----- | 1.39 | ----- | ----- | ----- | ----- |
| 22----- | .86 | .92 | 1.06 | ----- | 1.38 | ----- | ----- | ----- | ----- |
| 23----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 24----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 25----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 26----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 27----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 28----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 29----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 30----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| AVER- | | | | | | | | | |
| AGES | 0.89 | 0.99 | 1.12 | 1.22 | 1.38 | 1.26 | 1.12 | 1.01 | 0.90 |

in the February 1957 issue, Vol. 8, No. 2, page 63, of this publication.

SOLAR RADIATION TOTALS

Daily totals, and monthly averages of solar radiation (direct and diffuse) received on a horizontal surface, tabulated in langleyes.

SEPTEMBER 1970

Day of month

Station

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | Avg. | |
|----------------------|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|
| ALBUQUERQUE N.M. | 581 | 588 | 666 | 188 | 518 | 267 | 665 | 631 | 637 | 625 | 571 | 453 | 400 | 506 | 632 | 614 | 586 | 583 | 468 | 565 | 590 | 476 | 593 | 598 | 601 | 610 | 596 | 329 | 550 | 487 | | 539 | |
| AMES IOWA | 365 | 202 | 433 | 446 | 215 | 381 | 375 | 467 | 262 | 480* | 462* | 71 | 55 | 56 | 53 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 539 | |
| ANNETTE ALASKA | 91 | 39 | 388 | 460 | 265 | 221 | 343 | 216 | 201 | 455 | 446 | 415 | 234 | 130 | 158 | 88 | 78 | 101 | 120 | 165 | 26 | 272 | 371 | 51 | 30 | 98 | 43 | 289 | 46 | 113 | | 185 | |
| APALACHICOLA FLORIDA | 595 | 571 | 565 | 587 | 423 | 541 | 464 | 474 | 459 | 385 | 562 | 524 | 587 | 538 | 507 | 486 | 537 | 551 | 527 | 554 | 585 | 406 | 301 | 482 | 498 | 518 | 334 | 460 | 547 | 537 | 507 | 526 | |
| ARGUNNE NAT. LAB. | 490 | 388 | 166 | 287 | 394 | 39 | 410 | 402 | 487 | 542 | 530 | 274 | 89 | 64 | 352 | 261 | 225 | 450 | 477 | 405 | 380 | 66 | 209 | 160 | 448 | 498 | 393 | 444 | 403 | | | 376 | |
| ASTORIA OREGON | 235 | 364 | 311 | 474 | 181 | 253 | 347 | 557 | 545 | 539 | 540 | 526 | 536 | 454 | 424 | 310 | 97 | 277 | 97 | 361 | --- | 109 | 286 | 450 | 449 | 448 | 439 | 407 | 125 | 402 | | 364 | |
| ATLANTA GEORGIA | 556 | 457 | 498 | 354 | 470 | 233 | 470 | 397 | 535 | 435 | 456 | 313 | 58 | 56 | 537 | --- | 276 | 114 | 448 | 370 | 400 | 415 | 429 | 481 | 415 | 438 | 273 | 382 | 522 | 525 | 430 | | |
| BARROW ALASKA | 238 | 145 | 136 | 135 | 122 | 176 | 168 | 98 | 64 | 135 | 132 | 93 | 58 | 58 | 53 | 77 | 85 | 111 | 93 | 90 | 99 | 99 | 91 | 159 | 103 | 90 | 73 | 106 | 75 | 109 | | 109 | |
| BETHLEHEM PA. | 301 | 431 | 73 | 209 | 194 | 195 | 426 | 418 | 393 | 132 | 136 | 93 | 215 | 112 | 154 | 293 | 165 | 293 | 259 | 282 | 303 | 296 | 291 | 284 | 286 | 219 | 284 | 266 | 219 | 283 | 244 | | 244 |
| BISMARCK N.DAK. | 423 | 464 | 506 | 575 | 563 | 371 | 391 | 546 | 164 | 525 | 437 | 378 | 239 | 74 | 348 | 392 | 371 | 512 | 513 | 234 | 371 | 507 | 466 | 76 | 225 | 385 | 436 | 462 | 459 | | | 395 | |
| BOISE IDAHO | 571 | 573 | 588 | 145 | 193 | 299 | 549 | 500 | 595 | 578 | 571 | 574 | 583 | 524 | 557 | 497 | 513 | 490 | 137 | 348 | 469 | 436 | 464 | 517 | 512 | 499 | 496 | 482 | 473 | 421 | | 472 | |
| BROOKINGS SOUTH DAK. | 573 | 270 | 431 | 386 | 421 | 468 | 216 | 479 | 93 | 549 | 474 | 313 | 248 | 58 | 189 | 174 | 273 | 431 | 429 | 246 | 445 | 441 | 230 | 112 | 288 | 385 | 390 | 409 | 409 | 340 | | 340 | |
| BROWNSVILLE TEXAS | 430 | 559 | 621 | 692 | 678 | 667 | 638 | 647 | 624 | 549 | 281 | 548 | 439 | 546 | 560 | 665 | 619 | 404 | 544 | 634 | 546 | 546 | 250 | --- | 325 | 410 | 118 | 77 | 491 | 539 | | 505 | |
| BURLINGTON VERMONT | 568 | 612 | 171 | 146 | 168 | 167 | 397 | 526 | 200 | 372 | 574 | 551 | 178 | 432 | 83 | 380 | 342 | 91 | 493 | 489 | 269 | 343 | 360 | 344 | 202 | 385 | 63 | 408 | 212 | 264 | 323 | | 323 |
| CAPE HATTERAS N.C. | 476 | 434 | 446 | 403 | 434 | 376 | 464 | 553 | 553 | 512 | 412 | 187 | 548 | 533 | 539 | 382 | 497 | 474 | 317 | 509 | 499 | 434 | 364 | 425 | 391 | 501 | 506 | 411 | 496 | 507 | | 441 | |
| CARIBOU MAINE | 321 | 457 | 453 | 34 | 199 | 167 | --- | 158 | 227 | 116 | 536 | 516 | 143 | 535 | 382 | 57 | 250 | 215 | 355 | 328 | 354 | 60 | 206 | 443 | 122 | 174 | 53 | 274 | 343 | 194 | | 261 | |
| CHARLESTON S.C. | 542 | 330 | 369 | 468 | 419 | 468 | 419 | 468 | 419 | 468 | 419 | 468 | 419 | 468 | 419 | 468 | 419 | 468 | 419 | 468 | 419 | 468 | 419 | 468 | 419 | 468 | 419 | 468 | 419 | | 473 | | |
| CLEVELAND OHIO | 548 | 539 | 257 | 421 | 443 | 418 | 321 | 245 | 411 | 445 | 552 | 505 | 211 | 134 | 354 | 281 | 357 | 80 | 476 | 318 | 485 | 548 | 484 | 409 | 306 | 542 | 506 | 71 | 329 | 558 | | 473 | |
| COLUMBIA MISSOURI | 514 | 261 | 426 | 402 | 161 | 410 | 394 | 492 | 516 | 590 | 567 | 406 | 97 | 117 | --- | 136 | 212 | 345 | 474 | 405 | 383 | 263 | 451 | 325 | 241 | 491 | 474 | 477 | 476 | | 351 | | |
| DODGE CITY KANSAS | 425 | 539 | 597 | 550 | 547 | 584 | 608 | 591 | 577 | 590 | 580 | 580 | 76 | 434 | 75 | 271 | 203 | 420 | 512 | 506 | 485 | 101 | 324 | 534 | 314 | 541 | 481 | 476 | 490 | 487 | | 444 | |
| E. LANSING MICHIGAN | 596 | 480 | 258 | 465 | 540 | 313 | 422 | 443 | 476 | 428 | 570 | 439 | 53 | 42 | 232 | 367 | 94 | 250 | 511 | 230 | 461 | 131 | 75 | 155 | 370 | 87 | 162 | 245 | 256 | 182 | | 311 | |
| EL CENTRO CALIF. NFB | 594 | 595 | 534 | 596 | 592 | 592 | 592 | 592 | 592 | 592 | 592 | 592 | 592 | 592 | 592 | 592 | 592 | 592 | 592 | 592 | 592 | 592 | 592 | 592 | 592 | 592 | 592 | 592 | 592 | | 592 | | |
| EL PASO TEXAS | 531 | 586 | 375 | 550 | 541 | 567 | 594* | 562* | 484* | 528* | 578* | 574* | 508* | 552* | 387* | 553* | 387* | 402* | 523* | 498* | 555* | 550* | 522* | 562* | 542* | 530* | 514* | 510* | 507* | 507* | 526* | | |
| EL NEVADA | 639 | 627 | 620 | 596 | 134 | 170 | 605 | 572 | 597 | 573 | 586 | 573 | 483 | 597 | 560 | 584 | 571 | 575 | 417 | 549 | 409 | 545 | 537 | 548 | 542 | 530 | 514 | 510 | 507 | 507 | 507 | 526* | |
| EPPLEY NEWPORT R.I. | 537 | 559 | 339 | 222 | 322 | 449 | 238 | 233 | 53 | 217 | 450 | 535 | 497 | 74 | 24 | 253 | 496 | 36 | 487 | 462 | 434 | 427 | 404 | 387 | 191 | 348 | 103 | 170 | 394 | 376 | | 324 | |
| FAIRBANKS ALASKA | 304 | 141 | 376 | 189 | 168 | 354 | 216 | 312 | 383 | 362 | 214 | 101 | --- | 273 | 178 | 244 | 93 | 285 | 181 | 182 | 134 | 93 | 188 | 274 | 68 | 81 | 54 | 138 | 91 | 108 | | 199 | |
| FLAMING GORGE UTAH | 314 | 469 | 508 | 513 | 521 | 562 | 549 | 373 | 514 | 558 | 265 | 335 | 560 | 573 | 561 | 598 | 610 | 356 | 362 | 317 | 664 | 627 | 613 | 588 | 156 | 156 | 327 | 629 | 614 | | 477 | | |
| FORT WORTH TEXAS | 233 | 418 | 586 | 609 | 598 | 592 | 582 | 589 | 566 | 482 | 524 | 189 | 427 | 569 | 509 | 159 | 321 | 520 | 469 | 488 | 432 | 482 | 463 | 554 | 416 | 222 | 250 | 286* | 390 | 514 | | 462* | |
| FRESNO CALIFORNIA | 621 | 622 | 611 | 600 | 609 | 591 | 586 | 578 | 574 | 571 | 565 | 578 | 599 | 576 | 568 | 561 | 541 | 538 | 546 | 556 | 546 | 535 | 532 | 519 | 513 | 507 | 498 | 467 | 450 | 451 | | 454 | |
| GAINESVILLE FLORIDA | 577 | 533 | 503 | 400 | 512 | 444 | 538 | 362 | 473 | 572 | 387 | 430 | 417 | 434 | 327 | 426 | 525 | 517 | 577 | 490 | 473 | 430 | 533 | 310 | 236 | 465 | 541 | 447 | 430 | 552 | | 462 | |
| GENEVA NEW YORK | 463 | 448 | 158 | 202 | 358 | 466 | 460 | 331 | 157 | 268 | 465 | 457 | 132 | 112 | 238 | 386 | 38 | 302 | 362 | 338 | 310 | 142 | 341 | 257 | 330 | 330 | 150 | 128 | 252 | 167 | | 390 | |
| GLASGOW MONTANA | 335 | 529 | 527 | 500 | 426 | 519 | 427 | 155 | 443 | 510 | 255 | 396 | 189 | 414 | 495 | 477 | 447 | 414 | 397 | 38 | 259 | 332 | 365 | 435 | 322 | 461 | 425 | 417 | 362 | 391 | | 391 | |
| GREAT FALLS MONTANA | 360 | 551 | 555 | 301 | 409 | 570 | 297 | 336 | 565 | 553 | 187 | 231 | 188 | 573 | 528 | 467 | 324 | 463 | 229 | 320 | 389 | 133 | 336 | 351 | 322 | 461 | 459 | 461 | 434 | 379 | | 362 | |
| GREENSBORO N.C. | 327 | 245 | 335 | 370 | 419 | 485 | 327 | 427 | 384 | 392 | 234 | 248 | 452 | 441 | 393 | 464 | 347 | 401 | 342 | 301 | 376 | 371 | 390 | 349 | 379 | 378 | 168 | 378 | 433 | 393 | | 362 | |
| INDIANAPOLIS INDIANA | 512 | 320 | 246 | 186 | 456 | 250 | 454 | 448 | 507 | 530 | 525 | 430 | 326 | 225 | 473 | 325 | 319 | 168 | 465 | 203 | 401 | 381 | 111 | 303 | 84 | 430 | 453 | 448 | | | 359 | | |
| LAKE CHARLES LA. | 156 | 115 | 523 | 585 | 570 | 612 | 553 | 423 | 357 | 478 | 433 | 153 | 553 | 532 | 232 | 237 | 352 | 428 | 453 | 310 | 479 | 481 | 41 | 199 | 209 | 308 | 379 | 543 | 553 | | 393 | | |
| LAKELAND FLORIDA | 621 | 595 | 554 | 399 | 384 | 441 | 400 | 524 | 537 | 542 | 495 | 468 | 480 | 343 | 368 | 468 | 543 | 556 | 514 | 561 | --- | 319 | 497 | 291 | 180 | 397 | 476 | 476 | 196 | 317 | | 443 | |
| LANDER WYOMING | 435 | 469 | 564 | 450 | 334 | 257 | 550 | 542 | 571 | 571 | 569 | 115 | 230 | 273 | 489 | 512 | 507 | 489 | 463 | 339 | 494 | 359 | 66 | 508 | 475 | 471 | 467 | 456 | 449 | | 433 | | |
| LARAMIE WYOMING | 333 | 451 | 411 | 323 | 358 | 405 | 540 | 545 | 544 | 543 | 495 | 321 | 423 | 325 | 480 | 392 | 510 | 503 | 493 | 445 | 266 | 438 | 467 | 283 | 323 | 466 | 464 | 459 | 453 | 449 | | 430 | |
| LITTLE ROCK ARKANSAS | 473 | 269 | 340 | 401 | 528 | 443 | 460 | 460 | 460 | 460 | 460 | 460 | 460 | 460 | 460 | 460 | 460 | 460 | 460 | 460 | 460 | 460 | 460 | 460 | 460 | 460 | 460 | 460 | 460 | | 430 | | |
| LOS ANGELES CALIF. | 636 | 510 | 556 | 451 | 598 | 600 | 567 | 555 | 557 | 555 | 547 | 459 | 266 | 451 | 534 | 538 | 514 | 524 | 551 | 556 | 540 | 506 | 535 | 41 | 499 | 548 | 515 | 502 | 485 | 519 | | 534* | |
| LOS ANGELES CALIF. | 589 | 538 | 567 | 573 | 593 | 595* | 595* | 595* | 595* | 595* | 595* | 595* | 595* | 595* | 595* | 595* | 595* | 595* | 595* | 595* | 595* | 595* | 595* | 595* | 595* | 595* | 595* | 595* | 595* | | 534* | | |
| MADISON WISCONSIN | 397 | 389 | 287 | 444 | 497 | 75 | 460 | 537 | 483 | 565 | 538 | 156 | 88 | 70 | 155 | 485 | 85 | 485 | 475 | 310 | 181 | --- | 112 | 101 | 447 | 306 | 413 | 455 | 435 | 433 | | 340 | |
| MANHATTAN KANSAS | 372 | 223 | 477 | 469 | 329 | 469 | 428 | 475 | 376 | 501 | 431 | 73 | --- | 63 | 62 | 108 | 306 | 266 | 400 | 703 | 104 | 51 | 414 | 22 | 434 | 418 | 412 | 411 | 398 | | 293 | | |
| MANKASKA ALASKA | 446 | 208 | 331 | 116 | 154 | 237 | 249 | --- | 407 | 392 | 81 | 73 | --- | 163 | 332 | 184 | 197 | 305 | 327 | 202 | 300 | 327 | 304 | 143 | 97 | 131 | 88 | 114 | 84 | 90 | | 217 | |
| MEDFORD OREGON | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

SOLAR RADIATION TOTALS

Daily totals and monthly averages of solar radiation (direct and diffuse) received on a horizontal surface, tabulated in langleys.

| Station | Day of month | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Avg. |
|----------------------|--------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|----|------|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | |
| OKLAHOMA CITY OKLA. | 281 | 416 | 549 | 523 | 551 | 569 | 513 | 375 | 541 | 514 | 513 | 478 | 152 | 279 | 484 | 159 | 163 | 276 | 367 | 500 | 356 | 51 | 323 | 525 | 229 | 369 | 313 | 382 | 259 | 389 | | 380 |
| PAGE ARIZONA | 568 | 648 | 444 | 498 | 386 | 533 | --- | 573 | 556 | 566 | --- | 479 | 574 | 578 | 578 | 616 | 619 | 620 | 628 | 566 | 528 | 590 | 624 | 624 | 624 | 624 | 657 | 446 | 462 | 635 | | 567 |
| PALMER AKES ALASKA | 374 | 172 | 285 | 111 | 165 | 217 | 256 | 387 | 377 | 345 | 81 | 82 | 152 | 171 | 277 | 162 | 176 | 284 | 270 | 197 | 286 | 294 | 267 | 126 | 92 | 91 | 76 | 113 | 74 | 79 | | 201 |
| PHOENIX ARIZONA | 526 | 571 | 523 | 319 | 103 | 324 | 561 | 555 | 547 | 422 | 511 | 522 | 487 | 556 | 563 | 562 | 554 | 389 | 463 | 538 | 524 | 556 | 533 | 523 | 533 | 522 | 533 | 329 | 485 | 440 | | 486 |
| PORTLAND MAINE | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 512 | 515 | 445 | 95 | 62 | 84 | 440 | 29 | 459 | 445 | 380 | 378 | 313 | 290 | 330 | 219 | 55 | 272 | 91 | 177 | | --- |
| PROSSER WASHINGTON | 483 | 527 | 111 | 452 | 324 | 529 | --- | 550 | 510 | 512 | 484 | 455 | 522 | 349 | 485 | 396 | 210 | 296 | 474 | 414 | 440 | 245 | 462 | 459 | 443 | 400 | 424 | 397 | 367 | 317 | | 415 |
| RAPID CITY S.DAK. | 531 | 448 | 480 | 460 | 479 | 298 | 457 | 513 | 462 | 516 | 531 | 155 | 487 | 94 | 474 | 223 | 476 | 475 | 467 | 382 | 436 | 459 | 434 | 80 | 385 | 425 | 433 | 431 | 429 | 419 | | 397 |
| RENO NEVADA | 564 | 564 | 550 | 398 | 442 | 532 | 532 | 534 | 534 | 531 | 520 | 518 | 497 | 527 | 517 | 504 | 491 | 490 | 118 | 496 | 492 | 484 | 468 | 487 | 495 | 481 | 464 | 454 | 444 | 428 | | 485 |
| RICHLAND 25 NW WASH. | 564 | 591 | 151 | 487 | 371 | 477 | 335 | 490 | 508 | 511 | 485 | 471 | 523 | 379 | 486 | 430 | 196 | 289 | 388 | 352 | 426 | 190 | 409 | 443 | 419 | 412 | 406 | 403 | 371 | 299 | | 409 |
| RIVERSIDE CALIFORNIA | 680 | 647 | 627 | 663 | 641 | 649 | 627 | 608 | 589 | 588 | 572 | 510 | 523 | 586 | 586 | 585 | 590 | 581 | 607 | 597 | 571 | 601 | 589 | 566 | 476 | 583 | 571 | 550 | 515 | 504 | | 589 |
| RUSTON LOUISIANA | 508 | 158 | 439 | 487 | 482 | 489 | 525 | 352 | 470 | 316 | --- | --- | --- | 485 | 458 | 249 | 349 | 410 | 383 | 539 | 427 | 504 | 239 | 318 | 301 | 180 | 207 | 476 | 481 | 470 | | 396 |
| SAINT CLOUD MINN. | 367 | 375 | 456 | 531 | 527 | 323 | 320 | 527 | 160 | 494 | 465 | 330 | 200 | 65 | 101* | 447 | 96 | 353 | 432 | 121 | 472 | 473 | 238 | 96 | 96 | 381 | 458 | 440 | 446 | 416 | | 340* |
| SALT LAKE CITY | 603 | 648 | 625 | 592 | 132 | 115 | 580 | 552 | 635 | 602 | 586 | 516 | 535 | 572 | 584 | 585 | 572 | 571 | 458 | 542 | 321 | 560 | 522 | 566 | 601 | 589 | 520 | 504 | 508 | 513 | | 527 |
| SAN ANTONIO TEXAS | 327 | 439 | 531 | 584 | 550 | 475 | 541 | 570 | 599 | 433 | 456 | 341 | 222 | 463 | 508 | 355 | 502 | 484 | 554 | 311 | 372 | 486 | 444 | 402 | 139 | 121 | 183 | 403 | 546 | 519 | | 429 |
| SANTA MARIA CALIF. | 576 | 572 | 486 | 536 | 616 | 602 | 596 | 559 | 580 | 576 | 534 | 200 | 514 | 554 | 592 | 572 | 561 | 554 | 475 | 564 | 560 | 546 | 547 | 492 | 527 | 549 | 526 | 484 | 428 | 470 | | 532 |
| SAULT STE MARIE MICH | 573 | 105 | 67 | 362 | 539 | 485 | 136 | 461 | 505 | 217 | 518 | --- | 369 | 300 | 45 | 169 | 52 | 159 | 204 | 438 | 62 | 325 | 338 | 74 | 155 | 144 | 227 | 250 | 43 | 360 | | 265 |
| SEATTLE TACOMA WASH. | 278 | 298 | 354 | 301 | 90 | 210 | 147 | 303 | 507 | 507 | 532 | 512 | 511 | 431 | 130 | 303 | 83 | 178 | 371 | 222 | 197 | 291 | 407 | 420 | 420 | 426 | 401 | 400 | 342 | 305 | | 329 |
| SPOKANE WASHINGTON | 523 | 538 | 113 | 208 | 425 | 485 | 326 | 422 | 439 | --- | --- | --- | 527 | 381 | 486 | 300 | --- | 251 | 347 | 276 | 286 | 182 | 367 | 436 | 422 | 417 | 410 | 403 | 373 | 330 | | 372 |
| STERLING VIRGINIA | 575 | 536 | 225 | 453 | 506 | 515 | 530 | 481 | 372 | --- | 454 | 508 | 472 | 428 | 380 | 419 | 416 | 143 | 397 | 394 | 422 | 419 | 324 | 416 | 410 | 403 | 65 | 340 | 469 | 282 | | 405 |
| TALLAHASSEE FLORIDA | 557 | 417 | 442 | 400 | 469 | 429 | 526 | 373 | 280 | 262 | 403 | 502 | 349 | 328 | 347 | 353 | 461 | 381 | 452 | 491 | 466 | 382 | 413 | 365 | 329 | 404 | 395 | 344 | 496 | 494 | | 410 |
| TAMPA FLORIDA | 599 | 520 | 471 | 444 | 372 | 466 | 549 | 477 | 489 | 589 | 389 | 399 | 489 | 293 | 317 | --- | 466 | 467 | 468 | 380 | 410 | 326 | 465 | 353 | 293 | 360 | 466 | 412 | 320 | 367 | | 427 |
| TUCSON ARIZONA | 553 | 553 | 401 | 103 | 259 | 283 | 557 | 414 | 547 | 501 | 509 | --- | --- | 563 | 570 | 567 | 312 | 512 | 412 | 528 | 523 | 569 | 535 | 534 | 533 | 517 | 517 | 367 | 503 | 414 | | 469 |
| WAKE ISLAND PACIFIC | 620 | 623 | 584 | 349 | 467 | 580 | 644 | 591 | 627 | 617 | 620 | 551 | 594 | 602 | 605 | 548 | 632 | 612 | 508 | 572 | 542 | 593 | 620 | 599 | 420 | 238 | 569 | 510* | 585 | 567 | | 552* |

Note. --Langley is the unit used to denote one gram calorie per square centimeter.

Values with an asterisk are interpolated.

The solar radiation data in this table form the basis for the analyses in Charts VII. A. and B. of this publication. The analyses include adjustments required to bring station records to approximately the same level of calibration.

NET RADIATION

SEPTEMBER 1970

Net radiation in langbeys per day (8 a. m. to 8 a. m.) at Palmer, Alaska.

| Date | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | Avg. |
|----------|-----|----|-----|----|----|-----|-----|-----|-----|-----|----|----|----|----|-----|----|----|----|-----|----|----|----|----|----|----|----|----|----|----|----|----|------|
| Langleya | 189 | 87 | 142 | 55 | 86 | 110 | 120 | 101 | 105 | 136 | 52 | 47 | 85 | 68 | 132 | 87 | 95 | 87 | 110 | 80 | 85 | 75 | 65 | 52 | 29 | 39 | 55 | 46 | 19 | 35 | 83 | |

The measurement is made with a CSIRO FUNK net exchange radiometer over a plot of sod. The value represents the total incoming minus the total outgoing radiation of all wave lengths.

These data are of an experimental nature and are published as received from the Palmer Exp. Station. The instrument with which they were measured has not been checked by the NOAA, National Weather Service.

SOLAR ULTRA-VIOLET RADIATION DATA

Daily totals and monthly average (< 3900 Å) at Ames, Iowa.

| Date. . . . | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | Avg. |
|-------------|-------|------|-------|-------|------|-------|-------|-------|------|-------|-------|------|------|------|------|------|------|------|-------|-------|-------|------|------|------|------|-------|-------|-------|-------|-------|-------|------|
| Langleys. . | 13.26 | 8.28 | 14.56 | 14.32 | 8.28 | 13.37 | 12.90 | 15.39 | 9.23 | 16.69 | 15.74 | 9.35 | 3.90 | 2.72 | 8.99 | 5.20 | 6.27 | 6.98 | 10.89 | 11.72 | 13.14 | 9.11 | 3.43 | 8.16 | 2.13 | 15.39 | 15.15 | 13.85 | 13.85 | 15.62 | 10.60 | |

These data are from an U - V Eppley total ultra violet sensor and Speedomax H (Leeds Northrup) Recorder. It is at the same location (Astronomy Building, Iowa State University, Ames) as the published total solar radiation instrumentation. This instrument has not been checked by the NOAA, National Weather Service.

TOTAL OZONE DATA

These provisional ozone data are obtained from measurements made with a Dobson ozone spectrophotometer, and are applicable approximately to local apparent noon. The data are presented in the code ASD 20 defined in the August 1962 WMO circular entitled "PUBLICATION OF DATA FOR METEOROLOGICAL RESEARCH, WORLD OZONE DATA."

Units Mill-atmo-cms.

| Station | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | Mean | |
|----------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|-----|
| BEDFORD, MASS. | 00343 | 00345 | 05332 | 00307 | --- | --- | --- | 06314 | 06370 | 05321 | 00290 | --- | --- | 06369 | --- | 00297 | --- | 00292 | --- | --- | 00290 | --- | --- | 00304 | 00299 | --- | --- | --- | 05318 | 06370 | 06349 | 324 | |
| BIRMINGHAM, ALA. | --- | --- | --- | 00316 | 00306 | 00299 | 00316 | 00306 | 05354 | 00332 | 00319 | 05353 | 06300 | 04336 | 00341 | 00329 | 06325 | 00302 | 00307 | 00316 | 00326 | 00332 | 00302 | 05376 | 05375 | 04337 | 00278 | --- | 00286 | 00280 | 321 | | |
| BOULDER, COLO. | 00325 | 00322 | 00327 | 04308 | --- | --- | --- | 00312 | 00314 | 00311 | 00313 | --- | --- | 05314 | 05309 | 00302 | 00296 | 00287 | --- | --- | 03311 | 00342 | 00310 | 00328 | 00360 | --- | --- | --- | 00298 | 00306 | 00296 | 314 | |
| CARTERSVILLE, GA. | --- | 05377 | 04334 | --- | 04368 | --- | 05344 | 05360 | 05348 | 05328 | 00311 | 02322 | 05360 | 00315 | 05313 | --- | 05324 | 05337 | 05335 | 05317 | 05296 | --- | 02399 | 00281 | 05316 | 05284 | --- | 05325 | 05353 | 05365 | 330 | | |
| FAIRBANKS, ALASKA | 05334 | 05325 | 05330 | --- | 05359 | 00308 | 04335 | 05345 | 00304 | 00292 | 04275 | 05298 | --- | 06301 | 05288 | 03275 | --- | 00315 | 05309 | 03333 | 05379 | 05296 | 00311 | --- | --- | --- | --- | 05333 | 04334 | 05346 | 3382 | | |
| GREEN BAY, WIS. | 00326 | 05335 | --- | 00336 | 00318 | 06290 | 00310 | 00320 | 00315 | 00338 | 00325 | 05363 | 05304 | 00345 | 02329 | 00299 | 05337 | 00322 | 00306 | 00302 | 04303 | 04287 | 00289 | 04312 | 00298 | 00303 | 00316 | 00346 | 00337 | 00313 | 319 | | |
| HUANGSHAN, BEIJING | 00251 | 00263 | 00269 | 00264 | 00267 | 00276 | 00273 | 00271 | 00273 | 05270 | 00274 | 05274 | 00286 | --- | --- | 05283 | 00276 | 00275 | 00275 | 00276 | 05279 | 00277 | 00274 | 00273 | 00273 | 00273 | 00273 | 00271 | 00273 | --- | 00272 | 284 | |
| MAUNA LOA, HAWAII | --- | 00276 | --- | 00272 | --- | --- | --- | --- | 00280 | 00291 | 00291 | --- | --- | 00286 | --- | 00274 | --- | 00272 | --- | --- | 00267 | --- | --- | 00290 | --- | --- | --- | --- | --- | 00276 | --- | --- | 280 |
| NA HALE, TENNESSEE | 00318 | 00324 | 00298 | 05318 | 00328 | 00313 | 00313 | 00312 | 00316 | 05306 | 00310 | 00309 | 00319 | 00310 | 00312 | 00317 | 00304 | 00300 | 00326 | 00306 | 00306 | 00309 | 00322 | 05321 | 00309 | 00302 | 00313 | 00324 | 00322 | 00317 | 314 | | |
| WALLINGFORD, VERMONT | --- | 00324 | 00318 | 00305 | 00322 | 00325 | 00325 | 00323 | 04287 | 00289 | 05295 | 00302 | 00300 | 00299 | 00290 | 00290 | 00283 | 00290 | 00298 | 00294 | 00294 | 00293 | 00293 | 00293 | 00293 | 00293 | 00293 | 00293 | 00293 | 00293 | 00293 | 299 | |

The spectrophotometer measures the total amount of ozone in the atmosphere, i. e. the amount contained in a vertical column of air extending from ground level to the top of the atmosphere in the vicinity of the station. The amount of apparent ozone is not corrected for absorption of light by water vapor and dust. The code ASD 20 designates the type of measurement made.



B. Temperature Departure from 30 - Year Mean (°F 1931-60), September 1970.

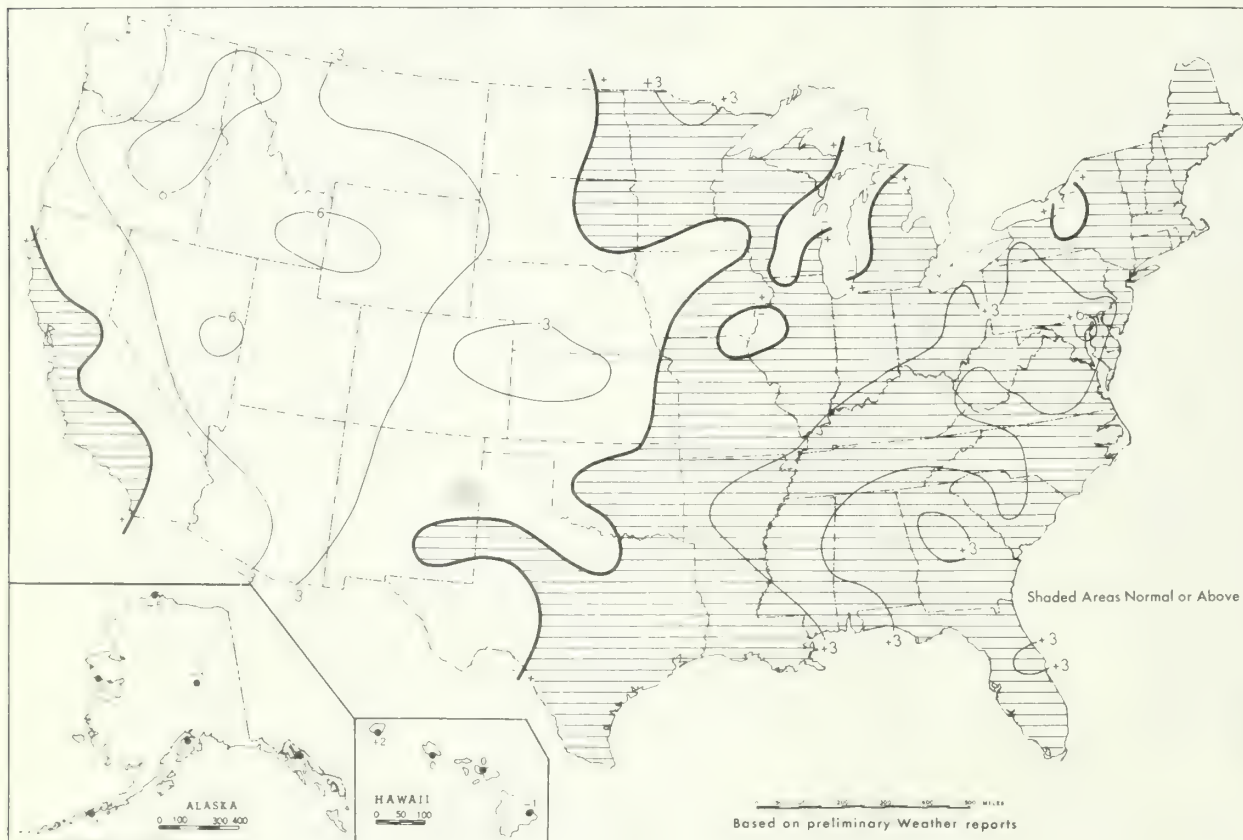


Chart II. Total Precipitation (Inches), September 1970.

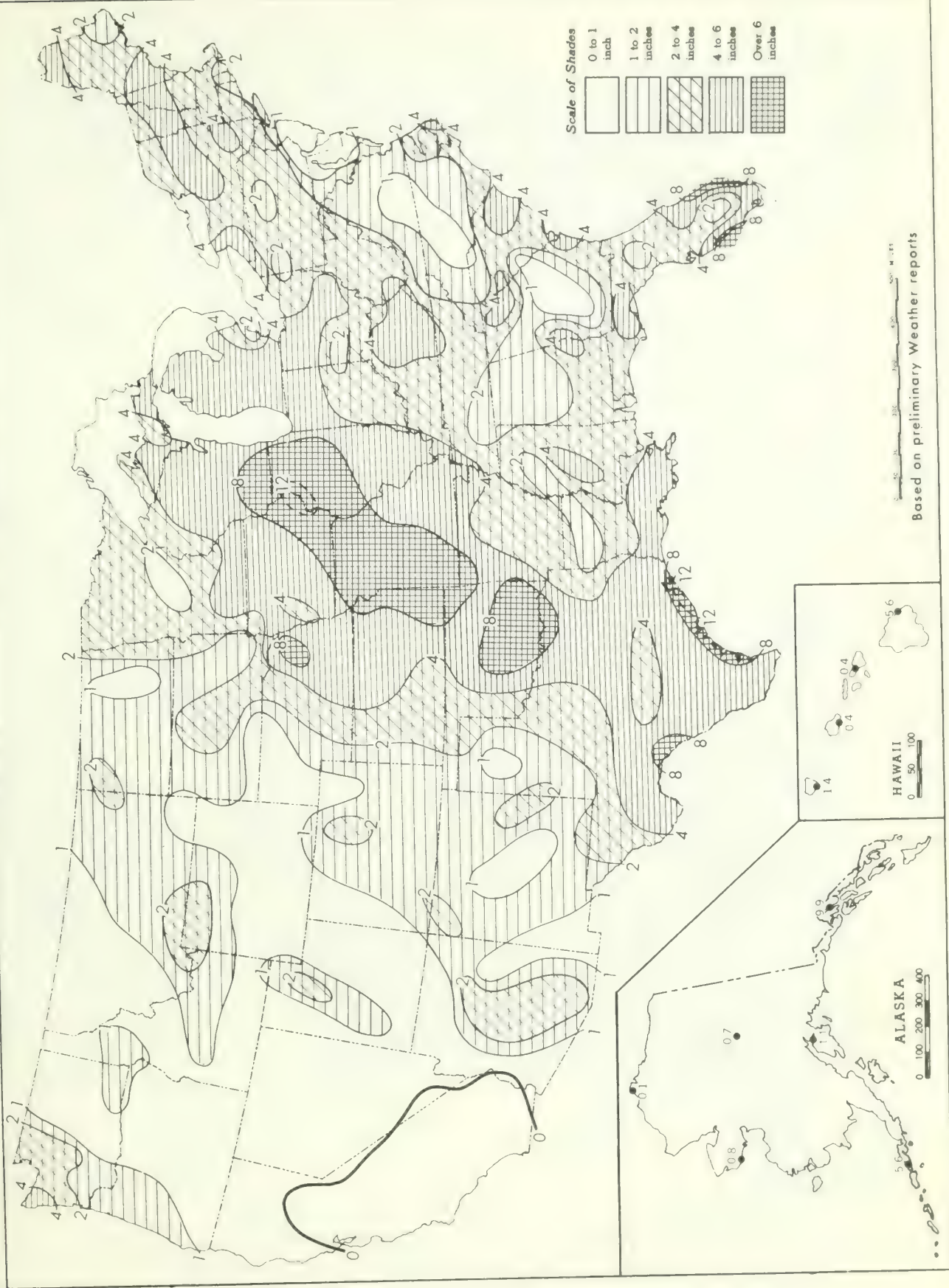
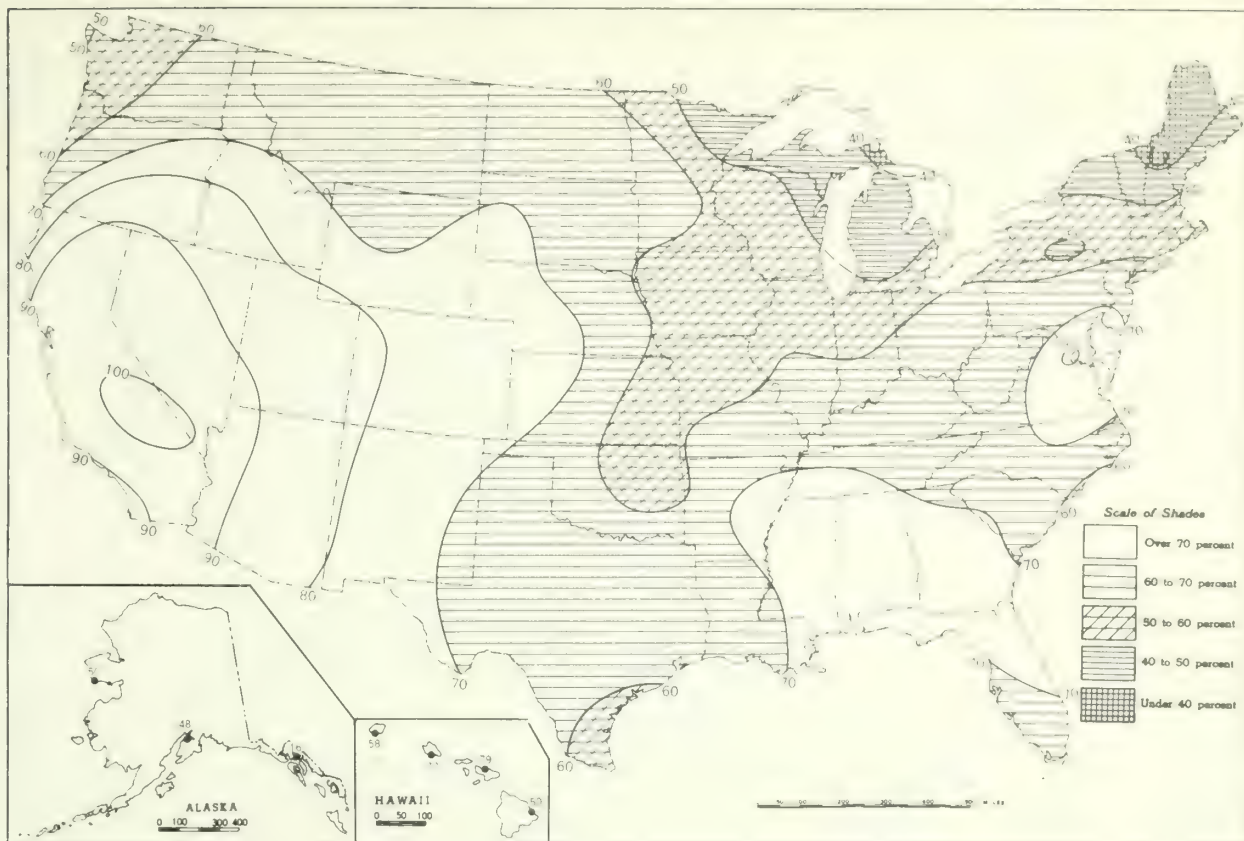
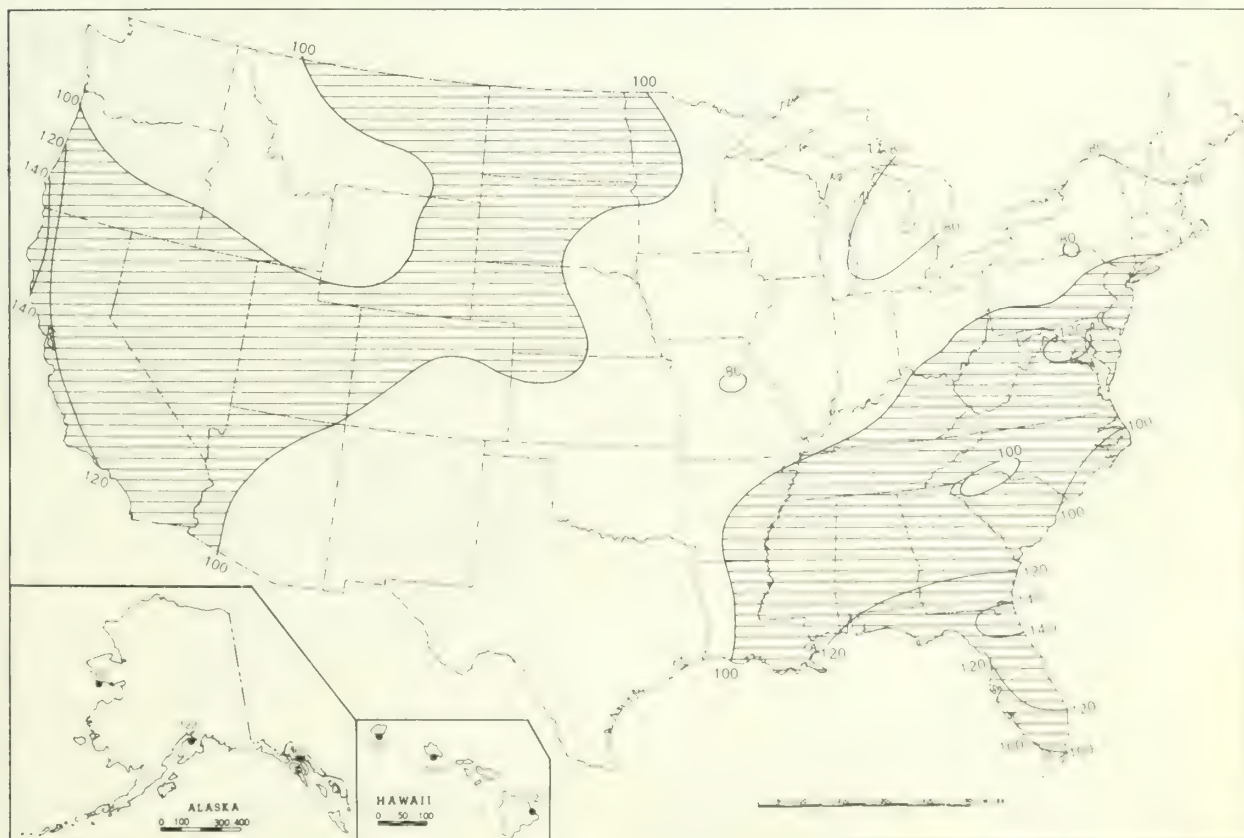


Chart III. Percentage of Normal Precipitation, September 1970.



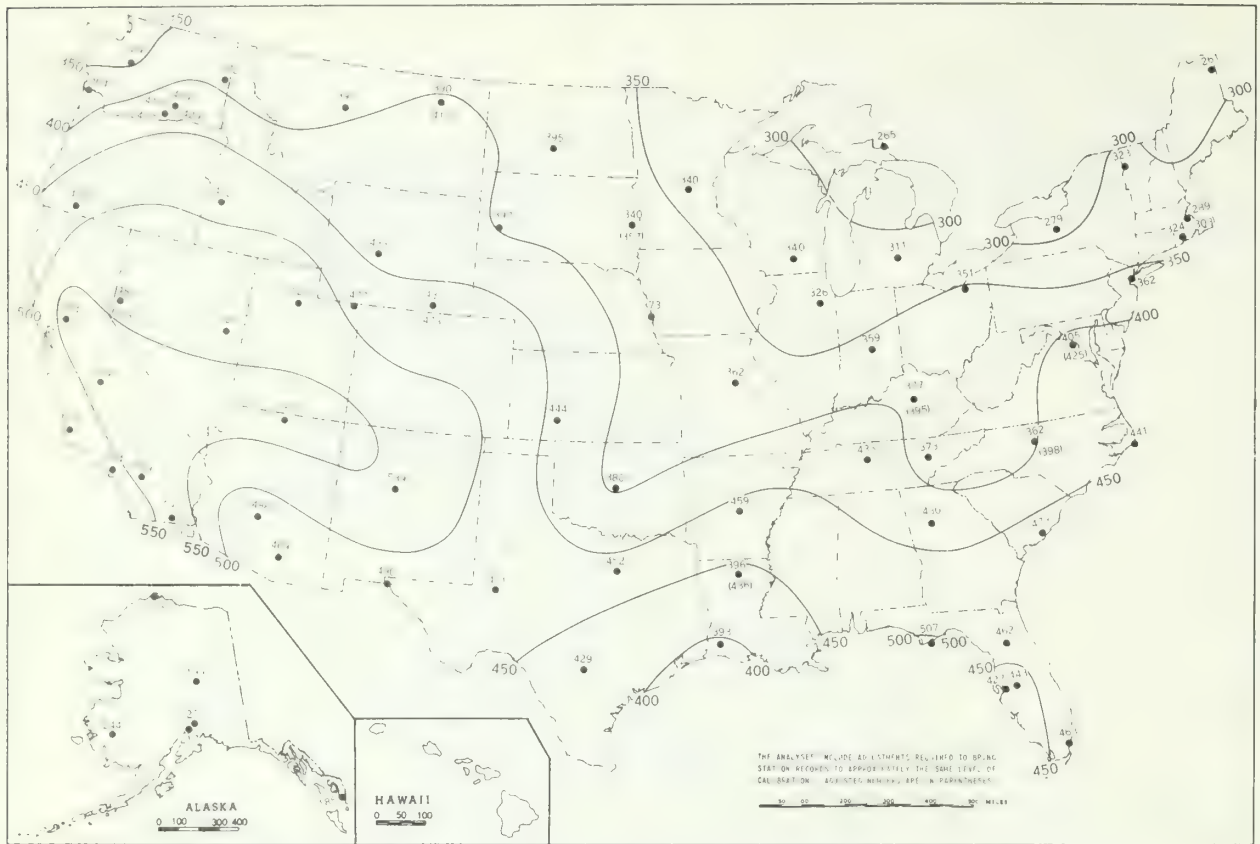


B. Percentage of Mean Monthly Sunshine, September 1970.

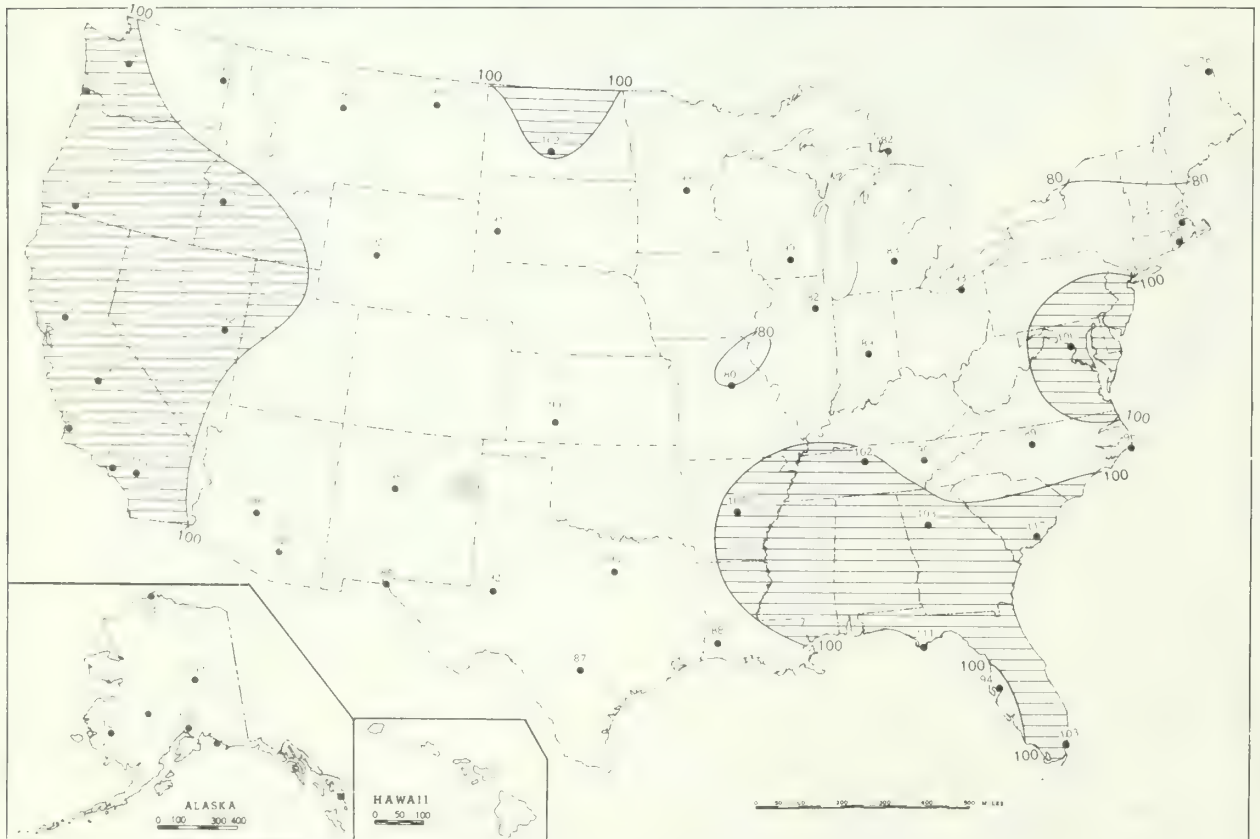


A. Computed from total number of hours of observed sunshine in relation to total number of possible hours of sunshine during month. B. Means are computed for stations having at least 10 years of record.

Chart VII. A. Average Daily Values of Solar Radiation, Langleys, September 1970.

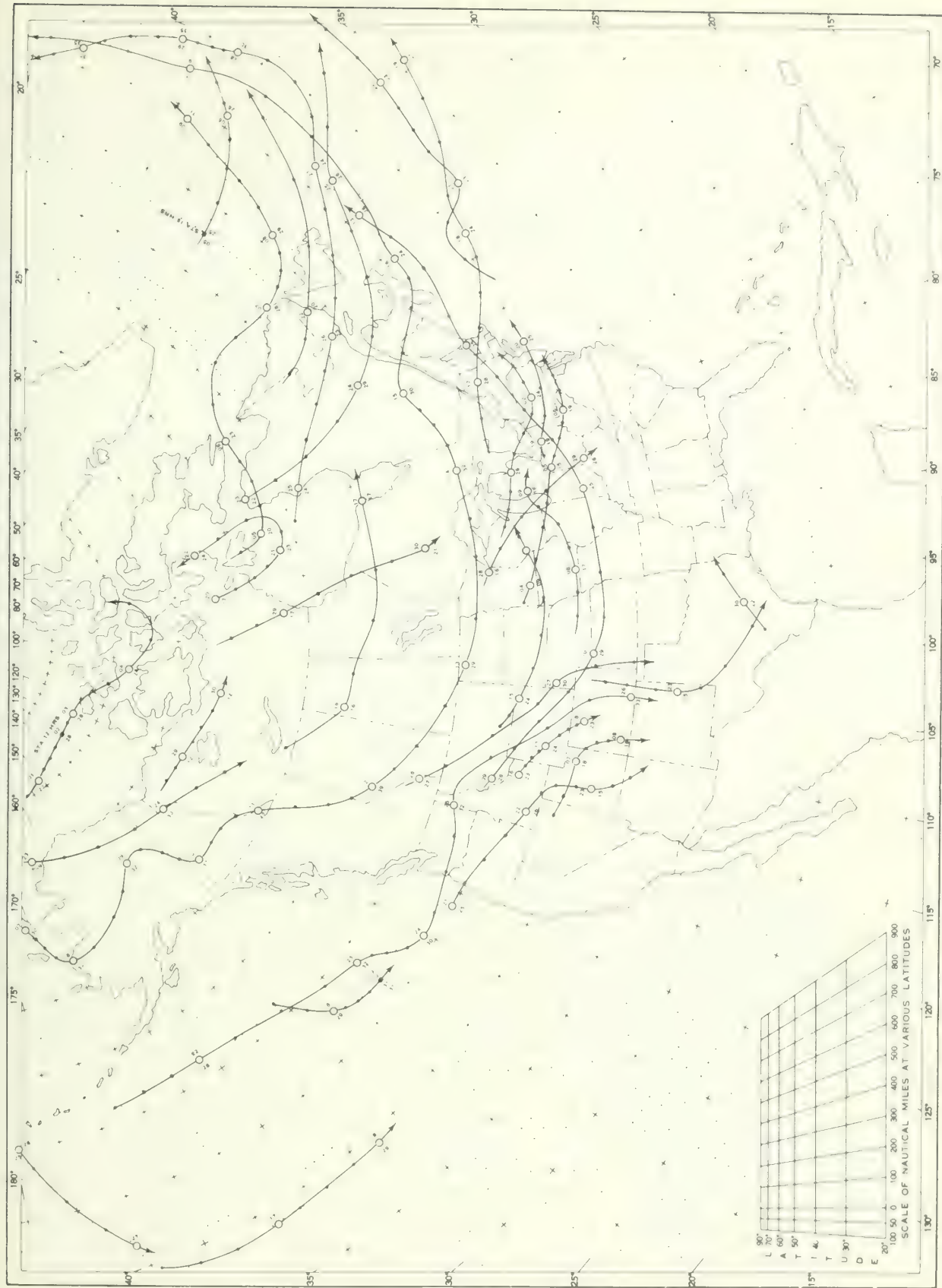


B. Percentage of Mean Daily Solar Radiation, September 1970.



A. Mean daily solar radiation, direct + diffuse, received on a horizontal surface in langleys (1 langley = 1 gm. cal. cm.⁻²) and recorded in International Pyrheliometer Scale of 1956. B. Percentage of the mean based on at least 5 years of record during the period 1950-60, and corrected to the International Pyrheliometer Scale of 1956.

Chart VIII. Tracks of Anticyclones at Sea Level, September 1970.



Circle indicates position of center at 7:00 a.m. E.S.T. Figure above circle indicates date, figure below, pressure to nearest millibar
 Dots indicate intervening 6-hourly positions. Squares indicate position of stationary center for period shown. Dashed line in track
 indicates reformation at new position. Only those centers which could be identified for 24 hours or more are included

Chart IX Tracks of Centers of Cyclones at Sea Level, September 1970

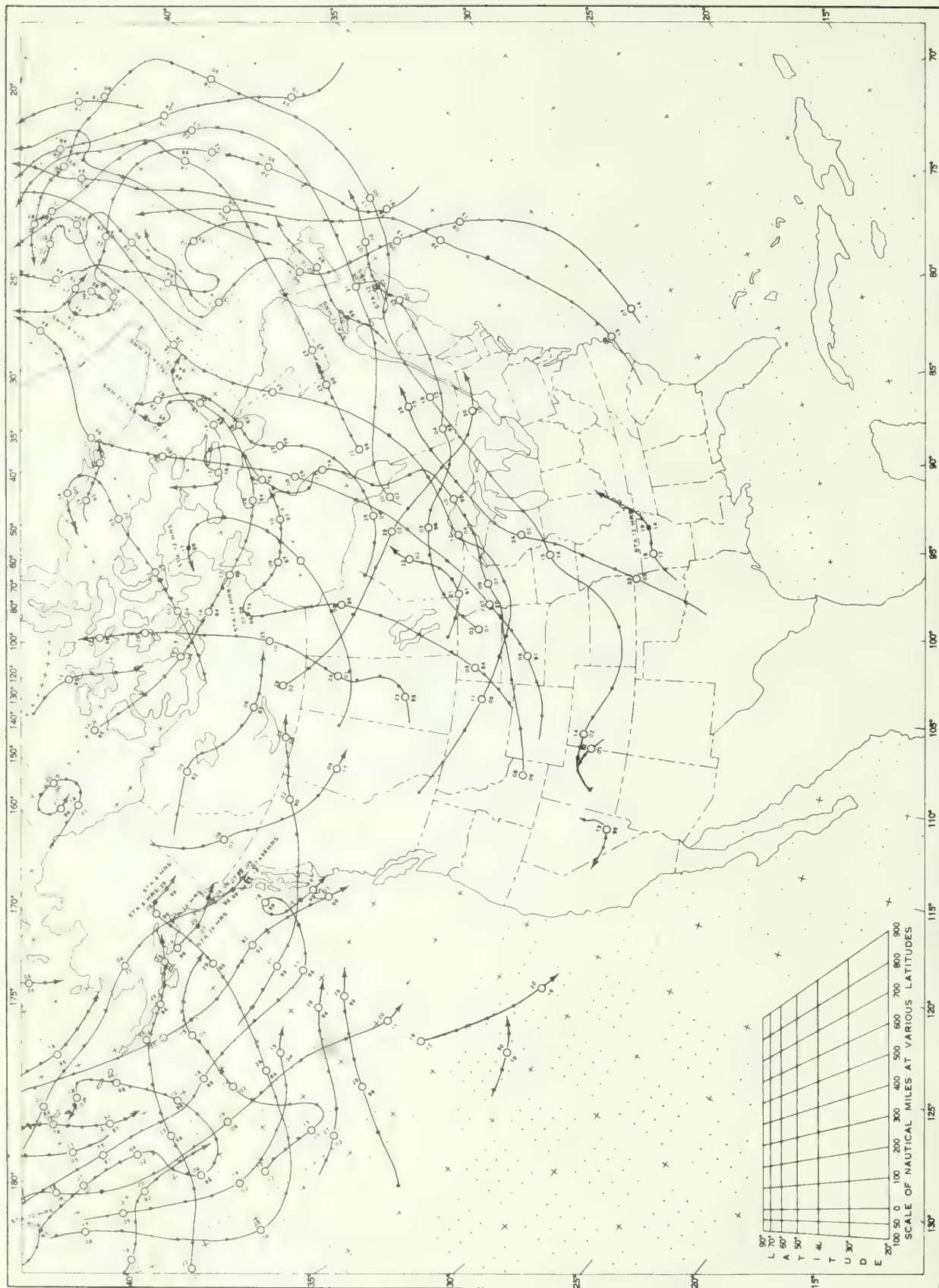
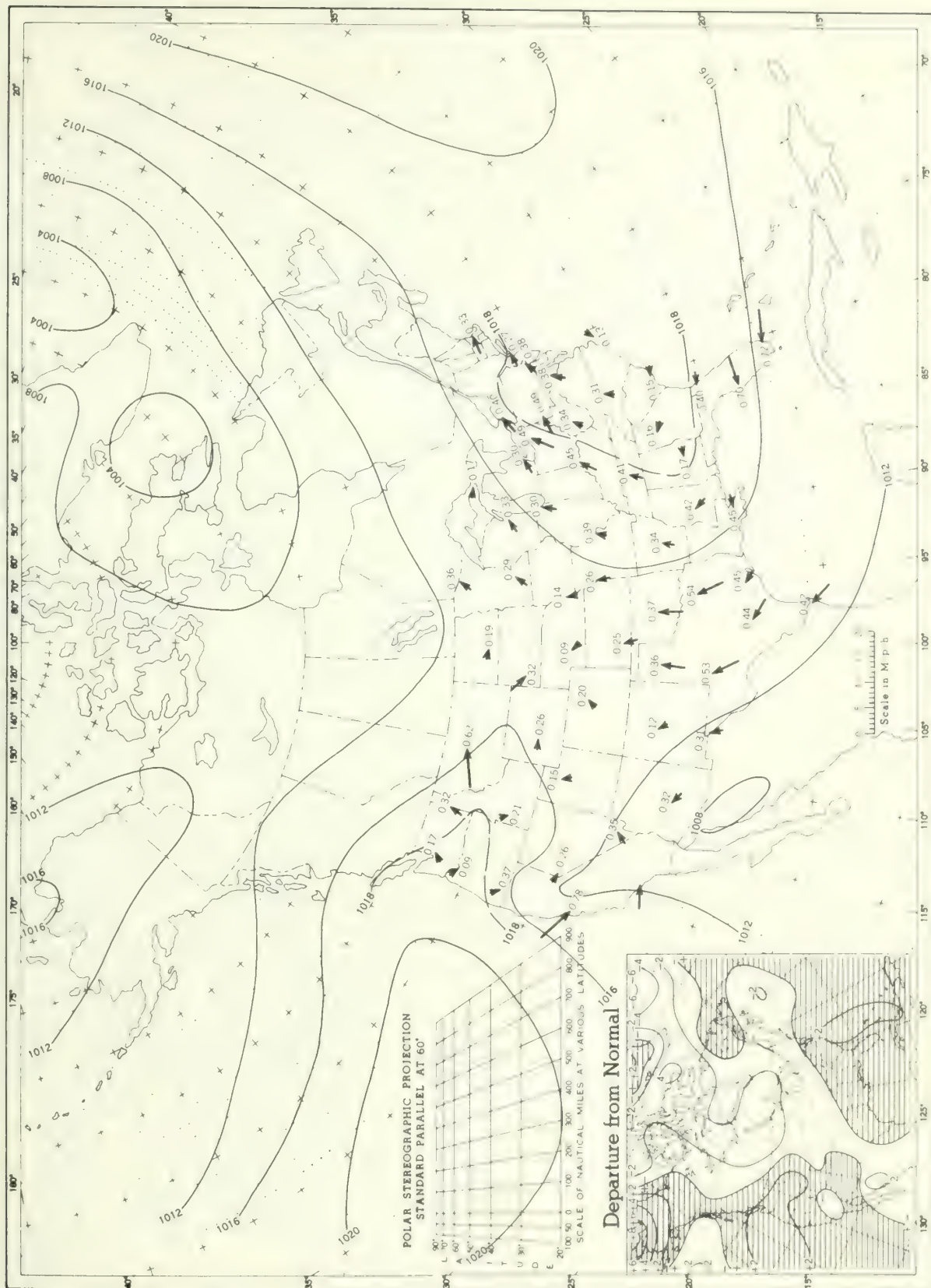


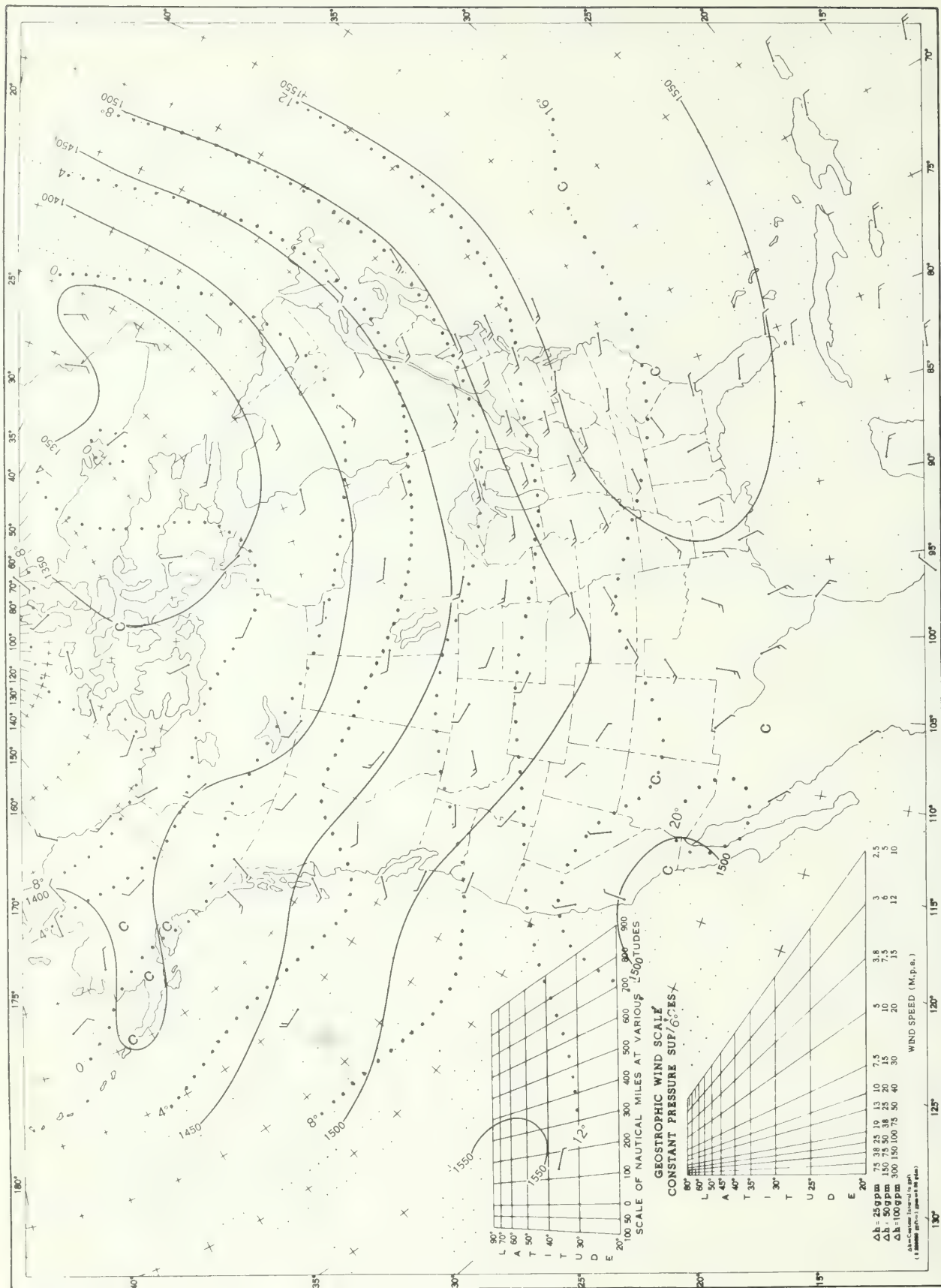
Chart X. Average Sea Level Pressure (mb) and Resultant Surface Wind, September 1970. Inset: Departure of

Average Pressure (mb) from Normal, September 1970.



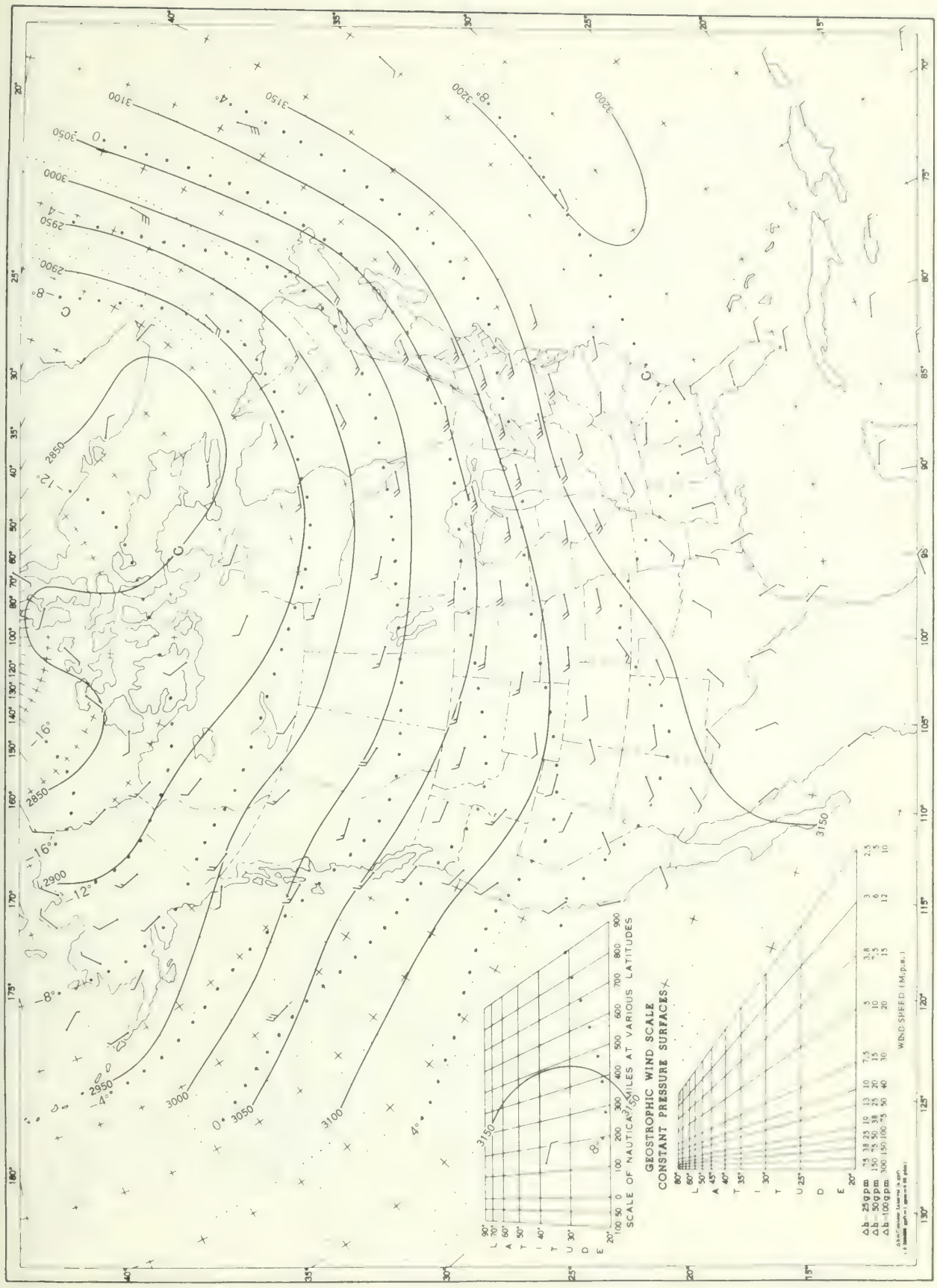
Average sea level pressures are obtained from eight daily 3 hourly observations. Resultant wind directions and speeds are shown by arrows. Contour lines (resultant speed average speed) are shown to two decimal places. Pressure normals are computed for stations having at least 10 years of record and for 10 intersections in a diamond grid over the oceans.

Chart XI. 850-mb Surface, 1200 GMT, September 1970. Average Height and Temperature, and Resultant Winds



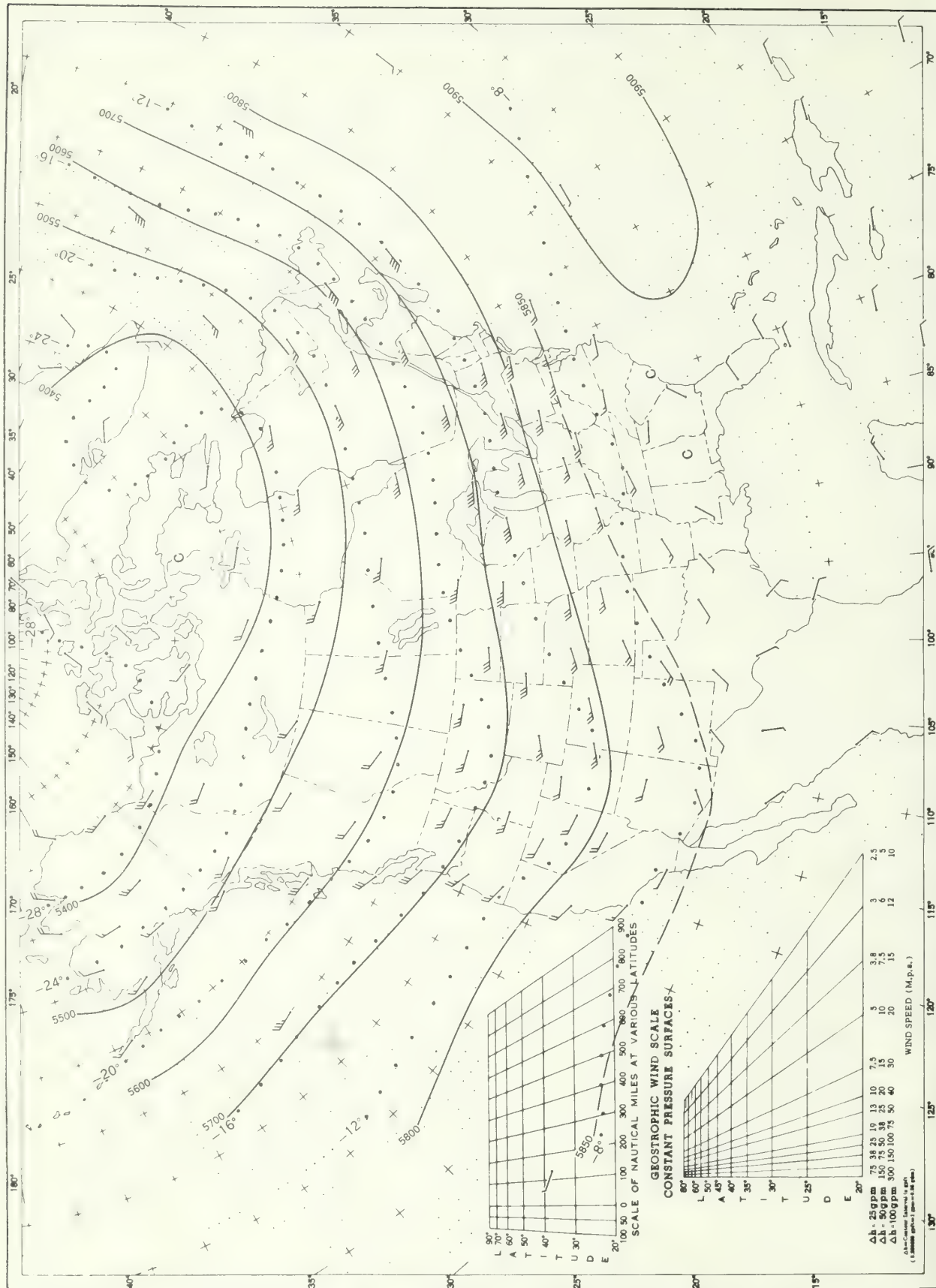
Height in geopotential meters (1 g.p.m. = 0.98 dynamic meters). Temperature in °C. Wind speed in meters per second; flag represents 25 mps, full feather 5 mps, and half feather 2.5 mps. All wind data are based on rawin observations.

Chart XII. 700-mb Surface, 1200 GMT, September 1970. Average Height and Temperature, and Resultant Winds.



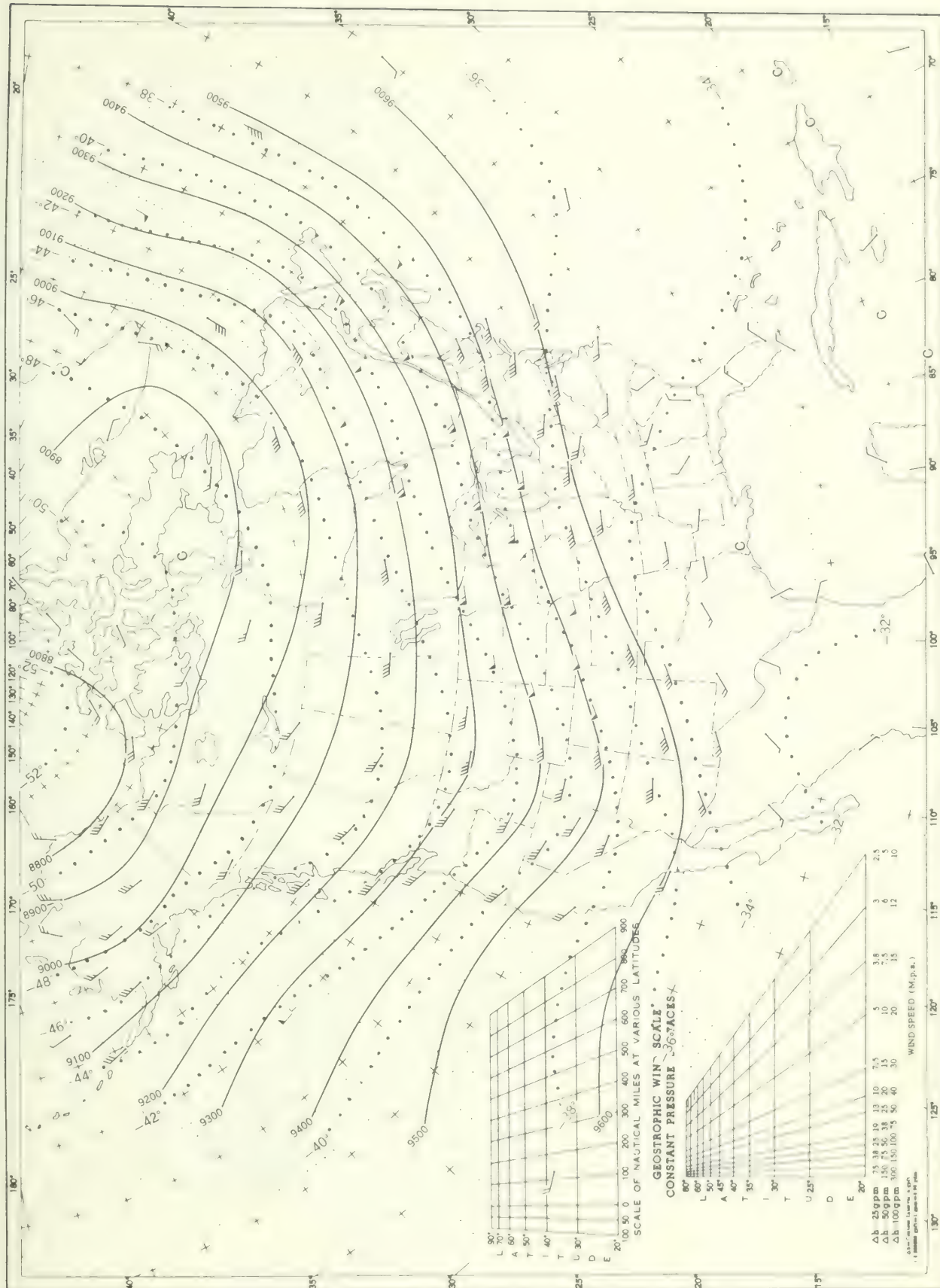
Height in geopotential meters (1 g.p.m. = 0.98 dynamic meters). Temperature in °C. Wind speed in meters per second; flag represents 26mps, full feather 5 mps, and half feather 2.5 mps. All wind data are based on rawin observations.

Chart XIII 500-mb. Surface, 1200 GMT, September 1970. Average Height and Temperature, and Resultant Winds.



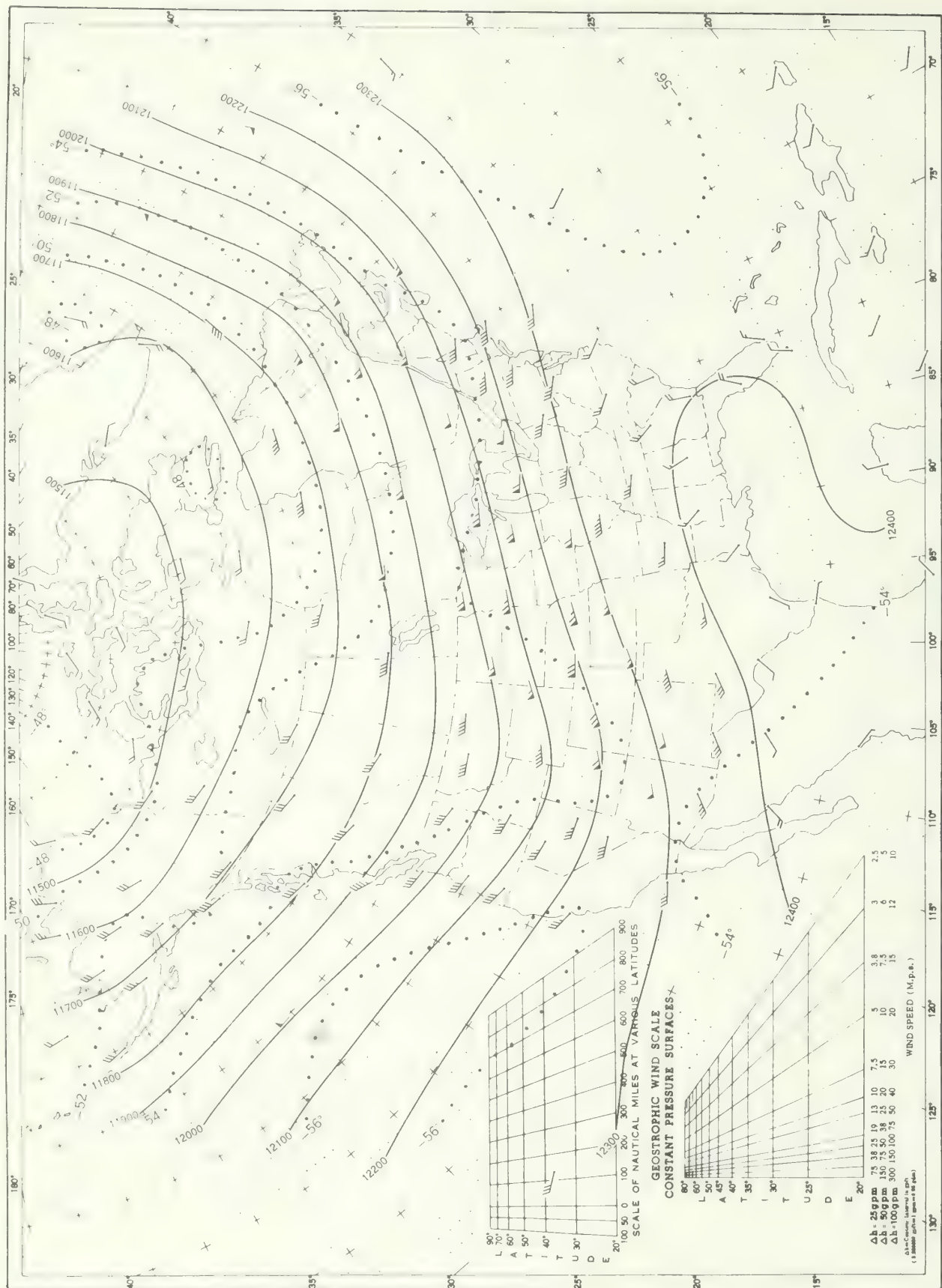
Height in geopotential meters (1 g.p.m. = 0.98 dynamic meters). Temperature in °C. Wind speed in meters per second; flag represents 26mps, full feather 6 mps, and half feather 2.6 mps. All wind data are based on rawin observations.

Chart XIV. 300-mb Surface, 1200 GMT, September 1970. Average Height and Temperature, and Resultant Winds



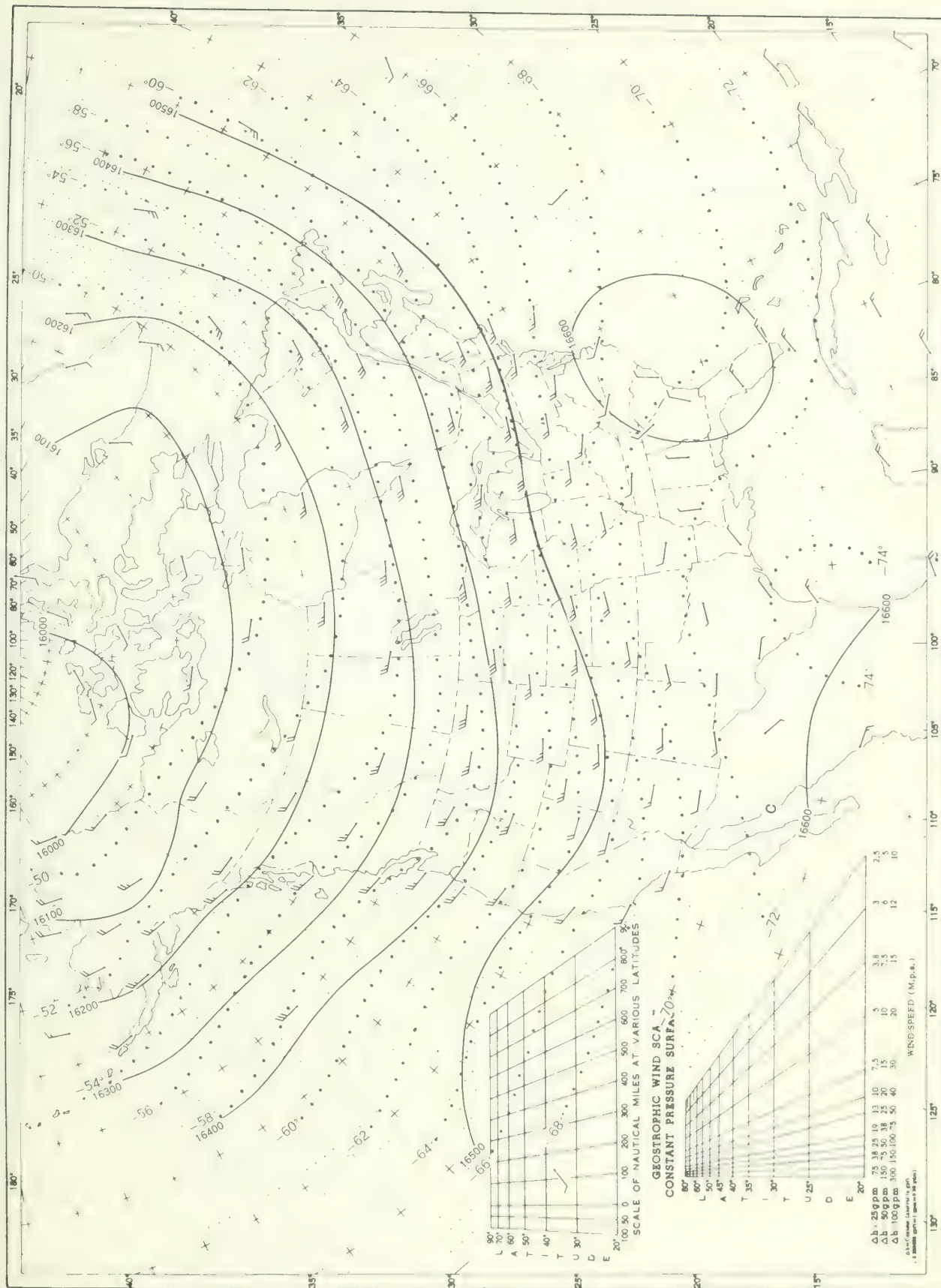
Height in geopotential meters (1 g.p.m. = 0.98 dynamic meters). Temperature in °C. Wind speed in meters per second; flag represents 25mps, full feather 5 mps, and half feather 2.5 mps. All wind data are based on rawin observations.

Chart XV 200-mb Surface, 1200 GMT, September 1970. Average Height and Temperature, and Resultant Winds

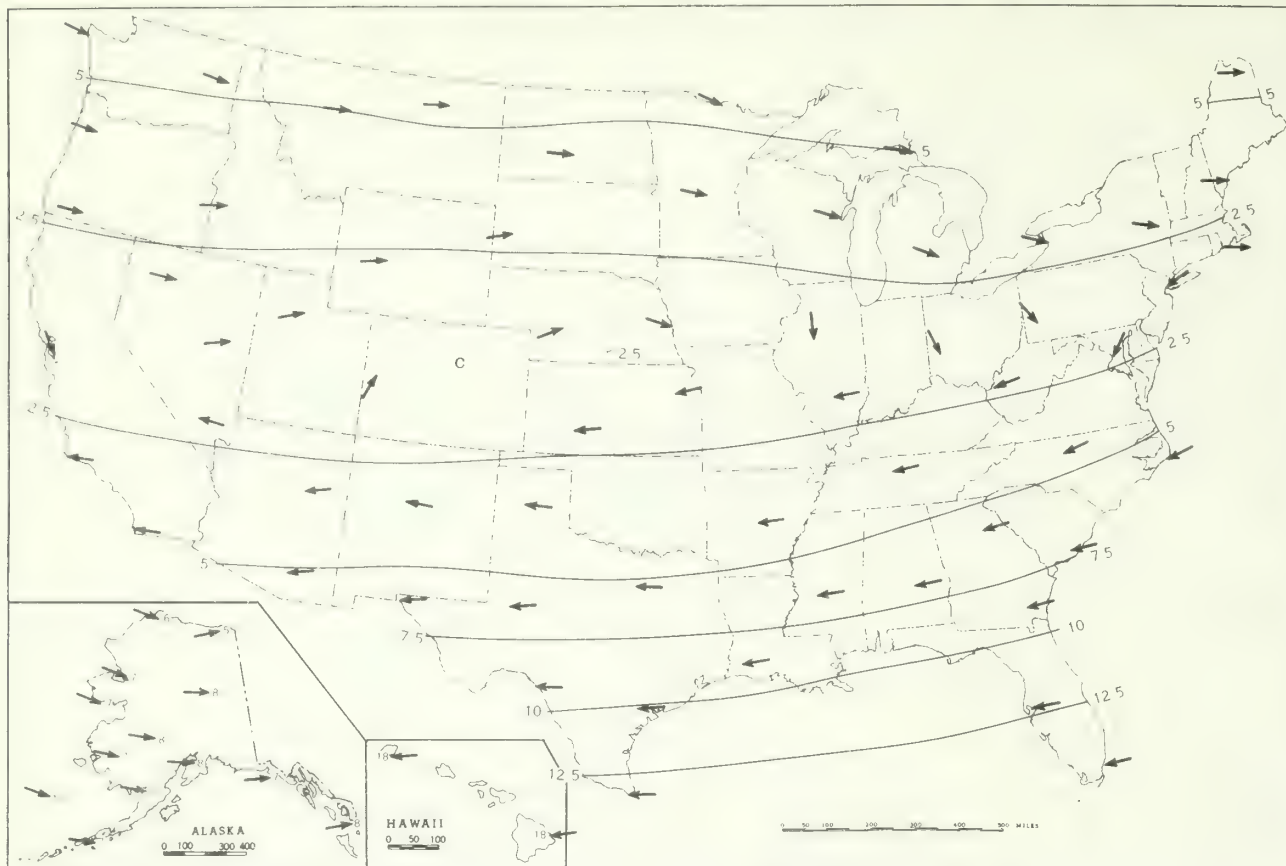


Height in geopotential meters (1 g.p.m. = 0.98 dynamic meters). Temperature in °C. Wind speed in meters per second; flag represents 25 mps, full feather 5 mps, and half feather 2.5 mps. All wind data are based on rawin observations.

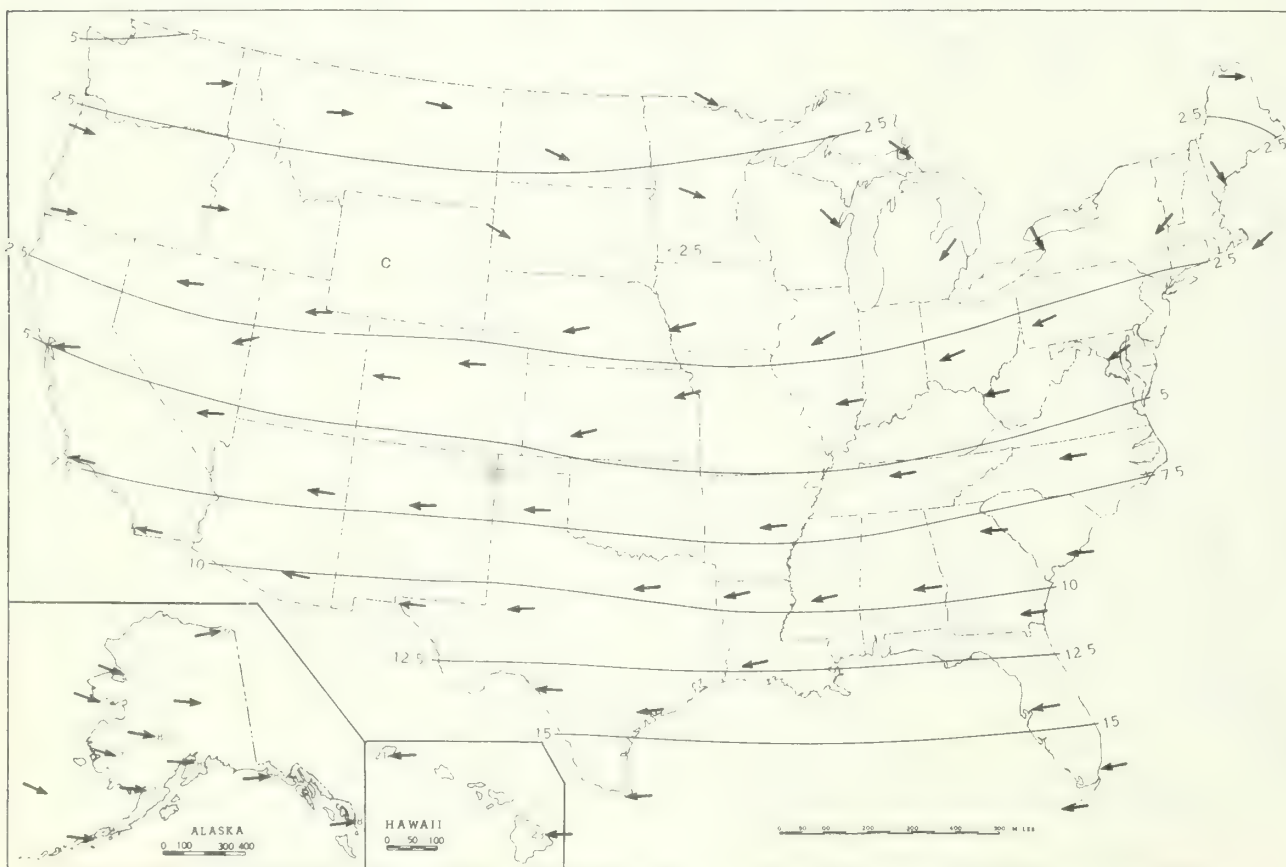
Chart XVI. 100-mb Surface, 1200 GMT, September 1970. Average Height and Temperature, and Resultant Winds.



Height in geopotential meters (1 g.p.m. = 0.98 dynamic meters). Temperature in °C. Wind speed in meters per second; flag represents 25 mps, full feather 5 mps, and half feather 2.5 mps. All wind data are based on rawin observations.



B. 30-mb. Surface, 1200 GMT, July 1967. September 1970. Resultant Winds.



Wind speed (isotachs) in meters per second. Arrows show resultant wind direction. All wind data are based on rawin observations.

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Climatological Data

NATIONAL SUMMARY

U.S. DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
ENVIRONMENTAL DATA SERVICE



OCTOBER

1970

Volume 21

No. 10

Wilmington, N.C.

1971

C O N T E N T S

| SURFACE DATA | Page |
|---|------|
| General Summary of Weather Conditions----- | 503 |
| Observed Extremes of Temperature and Precipitation - By States----- | 504 |
| Climatological Data - Stations - English Units----- | 505 |
| Climatological Data - Stations - Metric Units----- | 512 |
| Heating Degree Days----- | 519 |
| Cooling Degree Days----- | 520 |
| Storm Summary----- | 521 |
| General Summary of River and Flood Conditions----- | 522 |
| Flood Stage Data----- | 525 |
| UPPER AIR DATA | |
| Rawinsonde Data----- | 526 |
| SOLAR RADIATION DATA | |
| Solar Radiation Intensities----- | 533 |
| Daily Totals and Monthly Averages----- | 534 |
| Net Radiation----- | 536 |
| Solar Ultra-Violet Radiation----- | 536 |
| TOTAL OZONE DATA----- | 536 |
| CHARTS I-XVII----- | 537 |

NOTE: Delayed data and corrections will be carried in the June and December issues of this publication. An explanatory page "Description of Charts" will be carried in the January and July issues.

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CLIMATOLOGICAL DATA

NATIONAL SUMMARY

Volume 21 No. 10

OCTOBER 1970

GENERAL SUMMARY OF WEATHER CONDITIONS

HIGHLIGHTS:

1. Cool weather predominated over the West. At some locations, October 1970 was the coldest October in several decades.
2. Earlier-than-usual heavy snow fell in parts of the central Great Plains.

TEMPERATURE.--October temperatures averaged cooler than normal over the western and central States and above normal from the Great Lakes and the central Great Plains to the Atlantic Ocean. The central Rocky Mountains and the central Great Plains averaged several degrees cooler than normal.

Warm weather prevailed over the Far West the first few days of October but cooler weather persisted over that area the rest of the month. The East was cool the first few days, mostly warm thereafter.

Subfreezing temperatures occurred on many nights in the Great Basin, the Rocky Mountains, and the northern Great Plains and occasionally in New England and the Appalachians.

Cold fronts brought sharp temperature drops but, in the central and eastern sections, were followed by quick warmups. Billings, Mont., registered 81° on the afternoon of the 6th but only 39° on the 7th. At Miles City, Mont., the maximums on the 7th and 8th were 86° and 39°, respectively. Strong winds, gusting to 50 m.p.h., raised clouds of dust in parts of Arizona and New Mexico in the 2d week of October.

The coldest weather occurred in the last few days of the month when temperatures at a few locations in the central Rocky Mountains dropped to below zero.

A comparison of some temperatures in October 1970 with previous October records should be interesting. For instance, Great Falls, Mont., with 19° on the 7th, had never before experienced such a cold temperature so early in the fall. Ely, Nev., set a record low for so early in the autumn with a 3° reading on October 27. Temperatures at Pendleton, Oreg., averaged 47.4°. It was Pendleton's coldest October in 42 years. Phoenix, Ariz., recorded the coldest average temperature in 21 years. Their October average temperature was 69.1°. In contrast with the cold weather in the West, Wilmington, N. C., registered 86° on October 3, the highest maximum in any of the last 26 Octobers.

PRECIPITATION.--October began bright and sunny over most of the Nation. A few brief scattered thunder-showers interrupted the fine weather in southern Florida on the 2d and 3d and an inch of rain fell in 1 hour late on the 2d at Tucson, Ariz. Light snow flurries fell in northern Minnesota and Upper Michigan.

A large storm developed in the northern Great Plains on the 6th. Warm, moist air streamed northward ahead of the storm setting off showers and local thunderstorms from the Upper Mississippi River Valley to eastern Texas. Snow fell in the cold arctic air behind the storm, driven by cold northerly winds. By 2 p.m., October 7, the snow at Wheatland, Wyo., had accumulated to 12 inches. Three to 7 inches covered other parts of Wyoming. By evening, snow up to 12

inches covered the Colorado Rockies and 5- to 7-inch depths were common over Wyoming and western Nebraska. The snow pushed southward and, by the evening of the 8th, was falling as far south as Clovis, N. Mex., and Dalhart, Tex. By the following morning, snow had reached measurable depths at Grand Island and Lincoln, Nebr. This was the first time either of those locations had received more than a few flakes so early in the autumn.

Meanwhile, a tropical depression produced torrential rains in the Caribbean flooding parts of some of the islands. By dawn on the 9th, 16 rivers in Puerto Rico overflowed as the result of 25 to 33 inches of rain in 5 consecutive days. The flooding waters destroyed or damaged hundreds of houses and numerous bridges.

Heavy local downpours of from over 5.00 inches to almost 12.00 inches in 6 hours early on the 8th caused flash floods in 11 counties in central and south-central Oklahoma. The floods caused extensive damage to crops, farmland, livestock, farm machinery, roads, bridges, and to Platt National Park. Widespread thunder-showers occurred from the Great Lakes to the Gulf of Mexico. Beaumont, Tex., received 11.50 inches on October 11. A number of tornadoes and hail and windstorms occurred in Texas on the 11th. Tornado damage in the Lower Sabine-Neches area of Jefferson and Orange Counties was estimated at \$0.5 million. Several tornadoes struck Louisiana and Mississippi on October 5.

Snow flurries fell in southern Wyoming, northern Colorado, and western Nebraska and a mixture of snow and rain occurred from the northern Great Plains to the Ohio River Valley and the Lower Great Lakes on the 14th. Showers continued on the 15th from New England to the southern Atlantic States. During the forenoon of October 17, 5 to 10 inches of wet snow fell at some communities near Syracuse, N. Y.; 5 inches at Pompey and 10 inches at Marcellus. Several inches of snow fell in northern Maine the following forenoon.

Clouds produced intermittent rains from the central Great Plains to the Gulf of Mexico early in the last week of October. As the week progressed, a series of fronts brought a changeable weather pattern, clouds and showers alternating with sunny skies. As one system moved to the Atlantic, late on the 22d, another produced thunderstorms, some with wind and hail, over the Great Plains, and a third system, the most intense, beat the Washington coast with winds up to 70 m.p.h., soaked coastal areas with rain, and whitened the mountains with snow. Snow depths increased to over 30 inches in some of the higher mountains in Idaho and Washington. More rains soaked a wide area from the Great Lakes to the Gulf of Mexico near the end of the month.

The areas that received no rain or only light precipitation in October included the Great Basin, the northern and southern Rocky Mountains and nearby portions of the Great Plains, and the desert areas of California and Arizona.

OBSERVED EXTREMES OF TEMPERATURE AND PRECIPITATION -- BY STATES

OCTOBER 1970

| STATE | Temperature | | | | | | Precipitation | | | | | |
|----------------|----------------------------|---------------|------|-----------------------------|--------------|------|----------------------------|-----------------|------------------------|-------|------|--|
| | Monthly extremes | | | | | | Monthly extremes | | | | | |
| | Station | Highest
°F | Date | Station | Lowest
°F | Date | Station | Greatest
In. | Station | Least | In. | |
| Alabama | Coden | 98 | 3 | 3 Stations | 30 | 31- | Alexander City | 13.72 | Hayneville | | 2.94 | |
| Alaska | 2 Stations | 67 | 31+ | Dietrich Camp | -37 | 24 | Little Port Walter | 30.48 | Barrow WSO | | .16 | |
| Arizona | 2 Stations | 101 | 2+ | Fort Valley | -3 | 28 | Alpine | 2.52 | 17 Stations | | .00 | |
| Arkansas | 2 Stations | 92 | 3+ | 2 Stations | 26 | 29+ | Jessieville | 15.04 | Sparkman 3 WSW | | 3.09 | |
| California | Death Valley | 106 | 2- | Bodie | -10 | 27 | Honeydew 2 WSW | 7.86 | 62 Stations | | .00 | |
| Colorado | Julesburg | 92 | 4 | Independence Pass 5 SW | -9 | 27 | Bonham Reservoir | D 5.19 | Salida | | .14 | |
| Connecticut | 2 Stations | 80 | 6+ | Mansfield Hollow Dam | 19 | 29+ | Shepaug Dam | 4.17 | New Haven AP | | 1.28 | |
| Delaware | 4 Stations | 85 | 14+ | 4 Stations | 33 | 19+ | Wilmington Porter Resvr | 5.08 | Middletown 1 WSW | | 1.69 | |
| Florida | 4 Stations | 94 | 12+ | De Funiak Springs | 42 | 5 | Pensacola WSO | 12.01 | Venice | | .56 | |
| Georgia | 3 Stations | 93 | 4+ | Blairsville Exp Sta | 26 | 18+ | Dahlonega | 10.43 | Alma FAA AP | | 1.51 | |
| Hawaii | Keawakapu Beach 260.2 Maui | 95 | 22 | Mauna Loa Slope Obs, Hawaii | 30 | 28 | Honolulu Mauka 138, Hawaii | 14.69 | 6 Stations | | .00 | |
| Idaho | Brownlee Dam | 89 | 4 | Idaho Falls 16 SE | -8 | 27 | Pierce | 3.50 | May Ranger Station | | .00 | |
| Illinois | 6 Stations | 85 | 2 | 2 Stations | 25 | 17+ | Virginia | 5.55 | Keithsburg 1 NW | | 1.33 | |
| Indiana | Mount Vernon | 85 | 3 | Auburn 2 SSE | 24 | 17 | Tell City Power Plant | 6.87 | Monroeville 3 ENE | | 1.32 | |
| Iowa | Sidney | 86 | 5 | Sibley | 12 | 10 | Albia Pasture Imp Farm | 7.91 | Muscatine | | 1.27 | |
| Kansas | Cedar Vale | 91 | 2 | 2 Stations | 19 | 30+ | Hutchinson Exp Field | 5.42 | Ulysses | | .33 | |
| Kentucky | Jackson | 87 | 14+ | Falmouth 5 WNW | 23 | 17 | Russellville | 9.21 | Georgetown Water Works | | 1.64 | |
| Louisiana | Farmerville | 95 | 4 | 2 Stations | 31 | 30 | De Quincy 4 N | 19.94 | N O Audubon WSO | | 3.73 | |
| Maine | 3 Stations | 83 | 10- | 3 Stations | 16 | 31+ | Ripogenus Dam | 8.75 | Houlton FAA AP | | 2.89 | |
| Maryland | Assateague State Park | 89 | 7+ | Oakland 1 SE | 25 | 19 | Catoctin Mountain Park | 5.82 | Vienna | | 1.25 | |
| Massachusetts | 2 Stations | 83 | 9+ | Chester 2 | 15 | 20 | Pembroke | 4.55 | Holyoke | | 1.48 | |
| Michigan | 3 Stations | 82 | 6 | 2 Stations | 19 | 16 | Rock | 5.93 | Mount Clemens AFB | | 1.36 | |
| Minnesota | Beardsley | 92 | 5 | Rothsay | 11 | 10 | Isabella 1 W | 8.56 | Hallock | | .61 | |
| Mississippi | 6 Stations | 92 | 4+ | Lexington 2 NNW | 30 | 30 | Vaiden 1 SSW | 14.70 | Crawford 5 WSW | | 3.69 | |
| Missouri | 5 Stations | 88 | 5+ | Cook Station | 24 | 17 | Alton | 9.98 | Clinton 3 NW | | 1.89 | |
| Montana | Roy 24 NE Mobridge | 91 | 4 | West Yellowstone | 0 | 27 | Bozeman 12 NE | 4.40 | 2 Stations | | T | |
| Nebraska | Newport | 92 | 5 | Agate 3 E | 6 | 9 | Columbus 3 NE | 5.80 | Hyannis | | .46 | |
| Nevada | Sunrise Manor Las Vegas | 100 | 1 | Mountain City RS | -10 | 27 | North Fork Mntc Sta | 1.80 | 21 Stations | | .00 | |
| New Hampshire | 2 Stations | 82 | 9 | Mount Washington | 7 | 18+ | Conway 1 N | 7.22 | Lebanon FAA AP | | 1.82 | |
| New Jersey | 6 Stations | 84 | 4+ | Sussex 1 SE | 20 | 29 | Charlotteburg | 9.02 | Sandy Hook | | .90 | |
| New Mexico | 2 Stations | 90 | 13- | Red River | 11 | 28 | Winston | 2.96 | Espanola | | .00 | |
| New York | Cortland | 84 | 8 | Glens Falls Farm | 15 | 20 | Slide Mountain | 7.59 | Patchogue 2 N | | 1.09 | |
| North Carolina | Lincolnton 4 W | 91 | 12 | Transou | 19 | 18 | Rosman | 20.43 | Hot Springs 2 | | 1.02 | |
| North Dakota | Jamestown St Hospital | 94 | 5 | Upham 3 N | 7 | 10 | Fullerton | 1.84 | Shields | | .15 | |
| Ohio | 2 Stations | 86 | 9+ | 3 Stations | 22 | 18+ | Marietta Sewage Tmt Pl | 6.47 | London Water Works | | 1.71 | |
| Oklahoma | 2 Stations | 93 | 7+ | Hooker 1 N | 19 | 9 | Holdenville | 17.08 | Cheyenne | | .33 | |
| Oregon | 2 Stations | 97 | 3 | Seneca | 0 | 17+ | Tillamook 13 ENE | 11.76 | Pine Mtn Observatory | | .12 | |
| Pennsylvania | Johnstown | 87 | 8 | 2 Stations | 20 | 30+ | Palmerton | 9.02 | Lakeville 2 NNE | | 1.20 | |
| Puerto Rico | San Juan WSO, P.R. | 95 | 13 | Adjuntas Substation, P.R. | 54 | 27+ | Jayuya 1 SE | 52.02 | Calero Camp, P.R. | | 4.61 | |
| Rhode Island | Greenville | 79 | 13+ | Kingston | 22 | 20 | Kingston | 4.48 | Moonsocket | | 3.15 | |
| South Carolina | 3 Stations | 90 | 3+ | Dillon 4 SW | 28 | 18 | Caesars Head 1 NE | 14.00 | Givhans Ferry State Pk | | 2.26 | |
| South Dakota | Murdo | 95 | 5 | Pactola Dam | 4 | 31 | Clear Lake | 4.20 | Newell 2 NW | | .17 | |
| Tennessee | Lenoir City | 91 | 3 | Mountain City No 2 | 17 | 18 | Rockwood 2 | 9.42 | Unicoi 3 ESE | | 1.32 | |
| Texas | 3 Stations | 98 | 25- | Fort Hancock | 8 | 28 | Deweyville 5 S | 28.96 | 6 Stations | | .00 | |
| Utah | Saint George | 93 | 2 | Silver Lake Brighton | -2 | 27 | Silver Lake Brighton | 4.49 | 3 Stations | | .00 | |
| Vermont | Newport | 84 | 9 | 3 Stations | 15 | 21+ | Mount Mansfield | 4.82 | Gilman | | 1.42 | |
| Virginia | Chase City | 90 | 3 | Partlow 3 WNW | 15 | 18 | Peaks of Otter | 11.69 | Painter 2 W | | .91 | |
| Washington | John Day Dam | 92 | 1 | 2 Stations | 12 | 31+ | Naselle 1 ENE | 13.44 | 2 Stations | | .09 | |
| West Virginia | Athens Concord College | 89 | 6 | Buckeye | 15 | 18 | Parkersburg FAA AP | 7.89 | Valley Head | | 1.59 | |
| Wisconsin | 2 Stations | 84 | 5 | Big Saint Germain Dam | 12 | 16 | Ellsworth | 9.02 | Beloit | | 1.34 | |
| Wyoming | Arvada 3 N | 96 | 4 | Snake River | -8 | 28 | Snake River | 3.44 | Linch 10 ESE | | T | |

+ And also on an earlier date or dates.

NOTE: Dates in the above table apply to the period 24 hours prior to time of observation. In some cases the actual occurrence is on the calendar date preceding that shown. (See individual Climatological Data for times of observations).

D Water equivalent of snowfall wholly or partly estimated, using a ratio of 1 inch water equivalent to every 10 inches of snowfall.

ENGLISH UNITS

OCTOBER 1970

See footnotes at end of table

CLIMATOLOGICAL DATA

ENGLISH UNITS

JULY 1970

| State and Station | Elevation (ground) | Pressure | | Temperature | | | | | | | | | | Precipitation | | | | Wind | | | No. of days (sunrise to sunset) | | | Possible sunshine | | | | | | | | |
|---------------------|--------------------|----------|-----------|-----------------|-----------------|---------|-----------------------|---------|--------|------|---------------------|---------------------|-------------------|---------------------------|-------|-----------------------|----------------------|--------------------|-------------------------|-------------------|---------------------------------|-----|-----|-------------------|-----------------|---------------------|-------|-----------|------|-----|-----|----|
| | | Station | Sea level | Average maximum | Average minimum | Average | Departure from normal | Highest | Lowest | Date | No. of days | | Average dew point | Average relative humidity | Total | Departure from normal | Greatest in 24 hours | No. of days | | Snow, ice pellets | | | | | Resultant speed | Resultant direction | Speed | Direction | Date | | | |
| | | | | | | | | | | | Max. 90 F. or above | Min. 32 F. or below | | | | | | With thunderstorms | Maximum depth on ground | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | F. | | | | | | | | | | F. | F. | F. |
| CALIFORNIA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| STOCKTON | 22 | 1015.2 | 1016.3 | 77 | 50 | 63.2 | - 0.8 | 96 | 1 | 36 | 27 | 3 | 0 | 43 | 55 | 0.95 | 0.32 | 0.48 | 5 | 0 | 0.0 | 0 | 3.4 | 31 | 35 | 9 | 30 | 16 | 9 | 6 | 3.8 | ° |
| COLORADO | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ALAMOSA | 7536 | 771.4 | | 56 | 23 | 39.5 | - 4.9 | 70 | 2+ | 5 | 28 | 0 | 28 | | 1.09 | 0.49 | 0.50 | 7 | 0 | 14.2 | 4 | 3.5 | 2 | 40 | 34 | 8 | 13 | 7 | 11 | 4.9 | | |
| COLORADO SPRINGS | 6145 | 810.7 | 1016.7 | 55 | 33 | 44.2 | - 6.1 | 77 | 4 | 19 | 9 | 0 | 16 | 27 | 0.95 | 0.26 | 0.42 | 7 | 0 | 4.6 | 1 | 1.1 | 27 | 27 | NE | 8 | 14 | 5 | 12 | 4.9 | | |
| DENVER | 5283 | 835.8 | 1014.8 | 61 | 31 | 45.9 | - 5.5 | 81 | 4 | 20 | 15 | 0 | 18 | 30 | 63 | 0.88 | - | 0.24 | 7 | 0 | 5.9 | 1 | 1.1 | 27 | 27 | NE | 8 | 14 | 6 | 11 | 4.7 | 66 |
| GRAND JUNCTION | 4843 | 853.0 | 1016.5 | 61 | 36 | 48.8 | - 6.2 | 83 | 1 | 23 | 28 | 0 | 10 | 28 | 60 | 1.56 | 0.82 | 0.71 | 8 | 3 | 3.1 | 1 | 1.7 | 9 | 29 | NE | 14+ | 15 | 5 | 11 | 5.1 | 66 |
| PUEBLO | 4684 | 855.1 | 1014.9 | 64 | 36 | 50.0 | - 4.8 | 87 | 4 | 20 | 9 | 0 | 12 | 31 | 55 | 1.55 | 0.56 | 0.56 | 5 | 0 | 6.3 | 3 | 1.6 | 2 | 50 | N | 7 | 12 | 6 | 13 | 5.3 | |
| CONNECTICUT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BRIDGEPORT | 7 | 1022.4 | 1022.8 | 66 | 49 | 57.5 | 2.1 | 76 | 24+ | 31 | 28 | 0 | 1 | 48 | 72 | 1.63 | - 1.75 | 0.64 | 6 | 2 | T | 0 | 2.3 | 4 | 35 | 31 | 17 | 5 | 9 | 17 | 6.8 | 45 |
| HARTFORD | 169 | 1016.6 | 1023.1 | 66 | 44 | 54.9 | 1.9 | 79 | 13+ | 24 | 28 | 0 | 8 | 45 | 73 | 2.08 | - 1.10 | 0.78 | 7 | 2 | T | 0 | 0.3 | 2 | 37 | NW | 3 | 4 | 10 | 17 | 7.2 | |
| DELAWARE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| WILMINGTON | 74 | 1019.6 | 1022.5 | 69 | 51 | 60.4 | 3.8 | 85 | 3 | 36 | 17 | 0 | 0 | 50 | 72 | 2.64 | - 0.27 | 2.33 | 4 | 0 | 0.0 | 0 | 1.8 | 8 | 27 | 32 | 16 | 6 | 6 | 19 | 7.4 | |
| DIST. OF COLUMBIA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| WASHINGTON DULLES | 290 | 1010.5 | 1022.4 | 68 | 45 | 56.3 | | 84 | 3 | 32 | 5 | 0 | 1 | 49 | 80 | 2.79 | - 1.02 | 1.08 | 10 | 1 | 0.0 | 0 | 1.1 | 9 | 21 | 32 | 3 | 4 | 7 | 20 | 7.4 | 46 |
| WASHINGTON NATIONAL | 10 | 1019.6 | 1022.0 | 71 | 54 | 62.5 | 3.5 | 86 | 3 | 39 | 17 | 0 | 0 | 51 | 70 | 2.05 | - 1.02 | 1.17 | 7 | 0 | 0.0 | 0 | 1.2 | 5 | 26 | NW | 16 | 6 | 5 | 20 | 7.3 | |
| FLORIDA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| APALACHICOLA | 13 | 1015.2 | 1016.7 | 80 | 67 | 73.6 | 1.4 | 87 | 3 | 57 | 18 | 0 | 0 | 65 | 70 | 6.77 | 4.33 | 2.96 | 7 | 4 | 0.0 | 0 | 6.6 | 7 | 25 | 3 | 11 | 7 | 13 | 5.3 | 37 | |
| DAYTONA BEACH | 31 | 1014.9 | 1015.1 | 84 | 70 | 76.9 | 3.5 | 89 | 4 | 62 | 27+ | 0 | 0 | 65 | 70 | 3.87 | - 1.74 | 1.46 | 13 | 2 | 0.0 | 0 | 5.2 | 7 | 21 | 12 | 9 | 15 | 7 | 5.7 | | |
| FORT MYERS | 15 | 1014.9 | 1015.1 | 87 | 69 | 78.3 | 2.2 | 91 | 3 | 62 | 27 | 4 | 0 | 67 | 72 | 1.19 | - 2.90 | 0.66 | 4 | 1 | 0.0 | 0 | 5.2 | 7 | 21 | 12 | 9 | 15 | 7 | 5.2 | | |
| JACKSONVILLE | 24 | 1016.3 | 1017.2 | 82 | 64 | 73.1 | 2.1 | 89 | 15+ | 52 | 18 | 0 | 0 | 64 | 78 | 3.95 | - 1.21 | 2.35 | 9 | 2 | 0.0 | 0 | 4.3 | 8 | 35 | ENE | 17 | 9 | 11 | 11 | 4.6 | 67 |
| KEY WEST | 4 | 1013.2 | 1014.1 | 84 | 75 | 79.3 | 0.3 | 86 | 12+ | 70 | 24+ | 0 | 0 | 70 | 75 | 8.03 | 2.21 | 4.61 | 9 | 2 | 0.0 | 0 | 7.5 | 8 | 40 | SE | 20 | 14 | 13 | 4 | 4.5 | 67 |
| LAKE LAND | 214 | 7 | 1013.9 | 84 | 68 | 76.0 | 1.5 | 89 | 9+ | 58 | 27 | 0 | 0 | 72 | 78 | 2.59 | - 0.34 | 1.01 | 6 | 0 | 0.0 | 0 | 5.5 | 8 | 31 | 36 | 16 | 5 | 11 | 5.9 | | |
| MIAMI | 7 | 1013.9 | 1014.2 | 85 | 74 | 79.5 | 1.7 | 88 | 3 | 66 | 27 | 0 | 0 | 72 | 78 | 3.01 | - 0.52 | 0.66 | 16 | 3 | 0.0 | 0 | 5.5 | 8 | 31 | 36 | 16 | 5 | 11 | 5.9 | | |
| ORLANDO | 108 | 1011.5 | 1015.9 | 85 | 69 | 72.0 | 3.0 | 90 | 25 | 64 | 24+ | 1 | 0 | 67 | 76 | 2.60 | - 1.36 | 1.61 | 10 | 1 | 0.0 | 0 | 5.4 | 6 | 23 | 6 | 17 | 8 | 15 | 8 | 5.5 | |
| PENSACOLA | 112 | 1012.5 | 1016.4 | 80 | 64 | 72.1 | 1.7 | 90 | 3 | 56 | 23 | 1 | 0 | 60 | 70 | 12.01 | 9.03 | 4.69 | 11 | 7 | 0.0 | 0 | 3.8 | 7 | 18 | 17 | 12 | 18 | 11 | 5 | 5.1 | |
| TALLAHASSEE | 55 | 1014.6 | 1016.9 | 82 | 60 | 70.9 | 1.3 | 89 | 12 | 45 | 1 | 0 | 0 | 60 | 75 | 4.63 | 2.20 | 1.41 | 8 | 6 | 0.0 | 0 | 3.5 | 7 | 18 | 17 | 12 | 18 | 11 | 5 | 5.1 | 49 |
| TAMPA | 19 | 1015.2 | 1015.3 | 86 | 67 | 76.1 | 1.4 | 90 | 12+ | 56 | 27 | 2 | 0 | 65 | 73 | 0.89 | - 1.89 | 0.33 | 9 | 1 | 0.0 | 0 | 5.4 | 8 | 21 | 8 | 17 | 7 | 12 | 12 | 6.1 | |
| WEST PALM BEACH | 15 | 1013.9 | 1014.7 | 85 | 72 | 78.4 | 0.2 | 88 | 16+ | 63 | 27+ | 0 | 0 | 68 | 74 | 4.13 | - 3.83 | 0.76 | 15 | 7 | 0.0 | 0 | 6.9 | 7 | 28 | 5 | 17 | 4 | 16 | 11 | 6.2 | |
| GEORGIA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ATLANTA | 832 | 990.2 | 1018.9 | 74 | 55 | 64.7 | 1.7 | 87 | 3 | 34 | 16 | 0 | 0 | 55 | 77 | 5.54 | 2.68 | 1.68 | 11 | 2 | 0.0 | 0 | 4.2 | 7 | 17 | 5 | 16+ | 7 | 9 | 15 | 6.3 | |
| ATLANTA | 1010 | 982.1 | 1018.8 | 74 | 57 | 65.2 | 2.8 | 88 | 3 | 42 | 18+ | 0 | 0 | 53 | 71 | 6.29 | 3.85 | 2.60 | 12 | 3 | 0.0 | 0 | 3.6 | 9 | 27 | E | 11 | 5 | 9 | 17 | 7.0 | 47 |
| AUGUSTA | 136 | 1013.2 | 1018.5 | 78 | 54 | 65.8 | 0.6 | 90 | 3 | 34 | 18+ | 1 | 0 | 58 | 78 | 3.92 | 1.91 | 2.33 | 8 | 3 | 0.0 | 0 | 2.2 | 6 | 21 | 2 | 16 | 7 | 10 | 14 | 6.4 | |
| COLUMBUS | 385 | 1003.7 | 1018.2 | 79 | 59 | 69.0 | 3.6 | 90 | 3 | 46 | 18+ | 1 | 0 | 58 | 78 | 4.47 | 2.70 | 2.78 | 7 | 2 | 0.0 | 0 | 3.8 | 7 | 17 | 6 | 24+ | 5 | 9 | 17 | 6.5 | |
| MACON | 334 | 1005.4 | 1018.2 | 82 | 58 | 69.7 | 2.5 | 93 | 3 | 38 | 18 | 5 | 0 | 58 | 73 | 7.16 | 5.15 | 5.35 | 8 | 1 | 0.0 | 0 | 4.1 | 8 | 20 | E | 17 | 5 | 8 | 18 | 6.8 | 50 |
| ROME | 637 | 1005.4 | 1018.2 | 79 | 53 | 63.7 | 2.5 | 89 | 3 | 34 | 18 | 0 | 0 | 61 | 77 | 6.29 | 3.36 | 2.86 | 9 | 1 | 0.0 | 0 | 4.1 | 8 | 20 | E | 17 | 5 | 8 | 18 | 6.8 | |
| SAVANNAH | 46 | 1016.3 | 1018.1 | 81 | 60 | 70.2 | 3.0 | 88 | 3 | 44 | 18+ | 0 | 0 | 61 | 77 | 2.29 | - 0.29 | 1.04 | 11 | 2 | 0.0 | 0 | 3.8 | 5 | 31 | NE | 27 | 8 | 9 | 14 | 6.2 | 53 |
| HAWAII | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HILO | 27 | 1014.6 | 1015.8 | 84 | 67 | 75.3 | 0.2 | 89 | 1 | 62 | 29 | 0 | 0 | 67 | 76 | 8.44 | - 2.36 | 1.76 | 20 | 0 | 0.0 | 0 | 1.0 | 19 | 19 | E | 1 | 0 | 12 | 19 | 7.6 | 41 |
| HONOLULU | 7 | 1014.9 | 1015.4 | 85 | 72 | 78.5 | 0.3 | 88 | 13 | 68 | 30 | 0 | 0 | 67 | 70 | 1.88 | 0.04 | 0.79 | 15 | 0 | 0.0 | 0 | 8.6 | 5 | 27 | NE | 23 | 3 | 16 | 12 | 6.6 | 40 |
| KAHULUI | 48 | 1012.9 | 1015.1 | 87 | 69 | 78.3 | 1.0 | 92 | 3 | 64 | 31+ | 4 | 0 | 68 | 72 | 0.48 | - 0.39 | 0.25 | 10 | 0 | 0.0 | 0 | 9.4 | 5 | 30 | E | 21+ | 7 | 14 | 10 | 6.0 | 73 |
| LIHUE | 103 | 1011.5 | 1016.5 | 83 | 73 | 78.4 | 1.5 | 86 | 3+ | 67 | 31 | 0 | 0 | 69 | 75 | 2.74 | - 1.29 | 0.78 | 18 | 1 | 0.0 | 0 | 7.8 | 5 | 26 | SW | 1 | 3 | 12 | 16 | 7.2 | 44 |
| IDAHO | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BOISE | 2838 | 917.7 | 1018.7 | 59 | 36 | 47.5 | - 4.1 | 83 | 4 | 22 | 27 | 0 | 9 | 29 | 52 | 0.81 | - 0.03 | 0.31 | 6 | 0 | 0.3 | T | 0.7 | 10 | 32 | WSW | 22 | 18 | 2 | 11 | 4.2 | 67 |
| LEWISTON | 1413 | 864.5 | 1018.8 | 61 | 39 | 49.9 | - 2.1 | 85 | 4 | 28 | 30 | 0 | 6 | 49 | 70 | 0.89 | - 0.32 | 0.35 | 8 | 0 | 0.0 | 0 | 4.4 | 22 | 32 | SW | 24 | 13 | 5 | 11 | 4.8 | 63 |
| POCATELLO | 4454 | 864.5 | 1018.8 | 57 | 30 | 43.0 | - 6.1 | 82 | 4 | 18 | 29+ | 0 | 21 | 23 | 49 | 0.68 | - 0.21 | 0.34 | 7 | 0 | 0.1 | T | 4.4 | 22</ | | | | | | | | |

See footnotes at end of table

CLIMATOLOGICAL DATA

ENGLISH UNITS

OCTOBER 1973

| State and Station | Elevation (ground) | Pressure | | Temperature | | | | Precipitation | | | | Wind | | | | No. of days (sunrise to sunset) | | Sky cover, tenths (sunrise to sunset) | Possible sunshine | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | | Station | Sea level | Average maximum | Average minimum | Average | Departure from normal | Highest | Date | No. of days | | Average relative humidity | Total | Departure from normal | Greatest in 24 hours | | | | | No. of days | Snow, ice pellets | Resultant speed | Resultant direction | Speed | | Direction | Date | Clear, 0-3 | Partly cloudy, 4-7 | Cloudy, 8-10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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ENGLISH UNITS

OCTOBER 1970

See footnotes at end of table

CLIMATOLOGICAL DATA

ENGLISH UNITS

OCTOBER 1970

| State and Station | Pressure | | Temperature | | | | | | Precipitation | | | | | Wind | | | | No. of days
(sunrise to
sunset) | | Possible sunshine
(sunrise to sunset) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | Elevation (ground) | Station
Q | Sea level | Average maximum | Average minimum | Average
F. | Departure from normal | Highest | Date | Lowest | Date | No. of
days | | Total | Departure from normal | Greatest in 24 hours | No. of
days | | | | Ice pellets | Snow. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | Max. 90 F. or above | Min. 32 F. or below | | | | | Average relative humidity | Total | | | | Departure from normal | Greatest in 24 hours | No. of
days | Ice pellets | Snow. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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See footnotes at end of table

ENGLISH UNITS

OCTOBER 1970

See footnotes at end of table

[illegible]

Data from airport unless otherwise specified. U indicates Urban, R indicates Rural, sites.

Precipitation data in column headed "Greatest in 24 hours" are computed on a 24-hour basis without regard to calendar day-data may include precipitation with a measurable amount from the last day of the previous month or the first day of the following month.

Wind directions under resultant direction are in tens of degrees.

Value entered in column "Fastest Mile" is the highest observed 1-minute wind speed when the direction is in tens of degrees. These stations are not equipped with a recording anemometer from which "Fastest Mile" data can be evaluated.

B Number of days maximum 70°F. or above for Alaskan Stations.

And also on an earlier date or dates.

Station pressures apply to elevations shown in the "Elevations - Station Pressure" table of the annual issue of this publication.

METRIC UNITS

See footnotes at end of table

CLIMATOLOGICAL DATA

METRIC UNITS

OCTOBER 1970

| State and Station | Pressure | | Temperature | | | | | | Precipitation | | | | Wind | | | | No. of days (sunrise to sunset) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | Elevation (ground) | Station Q | Sea level | Average maximum | Average minimum | Departure from normal | | Highest | Lowest | Date | No. of days | | Average relative humidity | Total | Mm. | Mm. | Mm. | Greatest in 24 hours | With thunderstorms | Total | Mm. | Maximum depth on ground | Resultant speed | Resultant direction | Fastest mile (1 1/2 kilometers) | | Date | Clear, 0-3 | Partly cloudy, 4-7 | Cloudy, 8-10 | Sky cover, tenths (sunrise to sunset) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | C. | F. | | | | Max. 32.2 °C or above | Min. 0 °C or lower | | | | | | | | | | | | | C. | F. | | | | | | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. |

See footnotes at end of table

METRIC UNITS

1970

See footnotes at end of table

METRIC UNITS

43412

See footnotes at end of table

METRIC UNITS

WCTOREK

See footnotes at end of table

CLIMATOLOGICAL DATA

METRIC UNITS

OCTOBER 1970

| State and Station | Elevation (ground) | Pressure | | Temperature | | | | | | | | | | Precipitation | | | | Wind | | | No of days
(sunrise to
sunset) | | Sky
cover, tenths
(sunrise to sunset) | | | | |
|--|--------------------|--------------|-----------|--------------------|--------------------|------------------------|---------|------|--------|-----------------------|-----------------------|---------------|----------------------|---------------------------|-------|--------------------------|----------------------|-------------------------------------|----------------------|--------------------|--------------------------------------|--|---|------------------------|-----------------|-----------|------|
| | | Station
Q | Sea level | Average
maximum | Average
minimum | Average
from normal | Highest | Date | Lowest | Date | | No of
days | Average
dew point | Average relative humidity | Total | Departure
from normal | Greatest in 24 hours | No of
days
with thunderstorms | Snow,
ice pellets | Resultant
speed | | | | Resultant
direction | Speed
M.p.s. | Direction | Date |
| | | | | | | | | | | Max 32° F or
above | Min. 0° C or
lower | | | | | | | | | | No of
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CLIMATOLOGICAL DATA

METRIC UNITS

| State and Station | Elevation (ground) | Pressure | | Temperature | | | | | | | | | | Precipitation | | | | | | Wind | | No. of days
exposed to
sunlight | No. of days
Cloudy 8-10
Partly cloudy 4-7
Clear 0-3 | Sky cover - tenths
(sunrise to sunset) | Possible sunshine | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | | Station
Q | Sea level | Average | | Departure from normal | | Highest | | Lowest | | Date | | No. of
days | | Average dew point | | Average relative humidity | | Total | | | | | | Departure from normal | | Greatest in 24 hours | | 25 mm or more | | With thunderstorms | | Maximum depth
on ground | | Ice pellets | | Snow | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | | | | | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C |

Data from airport unless otherwise specified. U indicates Urban, R indicates Rural. Sites.

Precipitation data in column headed "Greatest in 24 hours" are computed on a 24-hour basis without regard to calendar day - data may include precipitation with a measurable amount from the last day of the previous month or the first day of the following month.

Wind directions under resultant direction are in tens of degrees.

Value entered in column "Fastest Mile" is the highest observed 1-minute wind speed when the direction is in tens of degrees. These stations are not equipped with a recording anemometer from which "Fastest Mile" data can be evaluated.

B Number of days maximum 21.1°C, or above for Alaskan Stations.

V Peak Gust.

† And also on an earlier date or dates.

Ø Station pressures apply to elevations shown in the "Elevations - Station Pressure" table of the annual issue of this publication.

Data in this table are obtained by conversion from data in the English Units table.

HEATING DEGREE DAYS

(Base 65°F.)

| State and station | Current season | | Normal July through this month | | State and station | Current season | | Normal July through this month | | State and station | Current season | | Normal July through this month | | State and station | Current season | | Normal July through this month | |
|---------------------|----------------|--------------------------------|--------------------------------|--|---------------------|----------------|--------------------------------|--------------------------------|--|---------------------|----------------|--------------------------------|--------------------------------|------|-------------------|----------------|--------------------------------|--------------------------------|--|
| | This month | Period July through this month | | | | This month | Period July through this month | | | | This month | Period July through this month | | | | This month | Period July through this month | | |
| ALABAMA | | | | | IDAHO | | | | | NEBRASKA | | | | | MISSISSIPPI | | | | |
| BIRMINGHAM | 174 | 114 | 30 | | BOISE | 537 | 777 | 547 | | GRAND ISLAND | 513 | 659 | 495 | | MOBILE | 11 | 173 | 287 | |
| HUNTSVILLE | 114 | 126 | 149 | | LEWISTON | 465 | 588 | 527 | | LINCOLN U | 424 | 511 | 382 | | CHATTANOOGA | 119 | 132 | 161 | |
| MOBILE | 7 | 7 | 22 | | POCATELLO | 675 | 1014 | 668 | | NORFOLK | 704 | 517 | | | KNOXVILLE | 119 | 132 | 201 | |
| MONTEAGUE | 39 | 40 | 68 | | ILLINOIS | | | | | NORTH PLATT | 600 | 817 | 569 | | MEMPHIS | 159 | 157 | 188 | |
| ALASKA | | | | | CAIRO U | 169 | 176 | 176 | | OMAHA | 426 | 531 | 422 | | NASHVILLE | 159 | 172 | 188 | |
| ANCHORAGE | 1003 | 2106 | 1908 | | CHICAGO O HARE | 302 | 389 | 510 | | SCOTTSDUFF | 426 | 531 | 422 | | OAK RIDGE R | 134 | 153 | 231 | |
| ANNETTE | 514 | 1378 | 1344 | | CHICAGO MIDWAY | 293 | 389 | 407 | | VALENTINE | 611 | 816 | 489 | | TEXAS | | | | |
| BARROW | 1959 | 4928 | 4178 | | WOLFING | 363 | 444 | 443 | | NEVADA | | | | | ABILENE | 147 | 167 | | |
| BATES ISLAND | 1924 | 4613 | 3979 | | INDIANAPOLIS | 353 | 442 | 477 | | ELY | 736 | 1099 | 829 | | AMARILLO | 119 | 132 | 223 | |
| BETHEL | 1210 | 2762 | 2367 | | PEORIA | 317 | 501 | 529 | | LAS VEGAS | 111 | 111 | 78 | | AUSTIN | 75 | 76 | 31 | |
| BETHEL | 1706 | 3275 | | | ROCKFORD | 281 | 323 | 363 | | RENO | 519 | 753 | 424 | | BROWNSVILLE | 1 | 14 | 0 | |
| BIG DELTA | 1450 | 2762 | | | SPRINGFIELD | | | | | WYNNMILL | 635 | 753 | 424 | | CORPUS CHRISTI | 1 | 14 | 0 | |
| COLD BAY | 766 | 2172 | 2156 | | INDIANA | | | | | NEW HAMPSHIRE | | | | | DALLAS | 113 | 123 | 62 | |
| FAIRBANKS | 1475 | 2487 | 2168 | | EVANSVILLE | 255 | 281 | 286 | | CONCORD | 431 | 641 | 738 | | DEL RIO | 69 | 93 | 31 | |
| JACKSON | 1357 | 4465 | | | FORT WAYNE | 311 | 393 | 492 | | MT WASHINGTON OBS | 224 | 2572 | 2808 | | EL PASO | 180 | 219 | 84 | |
| HOMER | 943 | 2373 | | | INDIANAPOLIS | 301 | 356 | 406 | | ATLANTIC CITY | 224 | 237 | 259 | | FORT WORTH | 105 | 112 | 65 | |
| JUNEAU | 784 | 2128 | 1847 | | SOUTH BEND | 311 | 449 | 545 | | NEWARK | 199 | 243 | 315 | | GALVESTON U | 31 | 31 | | |
| KING SALMON | 1099 | 2470 | 2056 | | IOWA | | | | | TRENTON U | 212 | 242 | 321 | | HOUSTON | 72 | 72 | 25 | |
| KOTZEBUE | 1565 | 3211 | 2799 | | BURLINGTON | 339 | 431 | 415 | | NEW JERSEY | | | | | LUBBOCK | 286 | 336 | 192 | |
| MC GRATH | 1360 | 2738 | 2643 | | DES MOINES | 352 | 452 | 471 | | ATLANTIC CITY | 204 | 237 | 259 | | MIDLAND | 150 | 191 | 87 | |
| NOME | 1305 | 3144 | 2764 | | DOUBQUE | 379 | 531 | 649 | | NEWARK | 199 | 243 | 315 | | PORT ARTHUR | 72 | 72 | 25 | |
| ST. PAUL ISLAND | 806 | 2639 | 2618 | | SILOU CITY | 489 | 641 | 486 | | TRENTON U | 212 | 242 | 321 | | SAN ANTONIO | 126 | 126 | 22 | |
| SHEMYA | 700 | 2315 | 2337 | | WATERLOO | 468 | 662 | 597 | | NEW MEXICO | | | | | SAN ANTONIO | 72 | 72 | 31 | |
| SUMMIT | 1454 | 3355 | | | KANSAS | | | | | ALBUQUERQUE | 380 | 488 | 241 | | VICTORIA | 44 | 44 | 43 | |
| TALKEETNA | 1184 | 2482 | 2098 | | CONCORDIA | 424 | 527 | 333 | | CLAYTON | 506 | 663 | 382 | | WACO | 87 | 91 | 43 | |
| UNALAKLEET | 1399 | 2988 | | | BRIDGE CITY | 441 | 530 | 284 | | ROSWELL | 298 | 354 | | UTAH | | | | | |
| YAKUTAT | 788 | 2036 | 1875 | | GOODLAND | 497 | 677 | 468 | | NEW YORK | | | | | MILFORD | 583 | 798 | | |
| ARIZONA | | | | | TOPEKA | 344 | 401 | 327 | | ALBANY | 377 | 514 | 597 | | SALT LAKE CITY | 768 | 768 | | |
| FLAGSTAFF | 643 | 975 | 873 | | WICHITA | 343 | 423 | 262 | | BINGHAMTON | 431 | 661 | 759 | | VERMONT | 554 | 749 | 420 | |
| PHOENIX | 19 | 19 | 22 | | KENTUCKY | | | | | BUFFALO | 328 | 433 | 637 | | BURLINGTON | 444 | 664 | 388 | |
| TUCSON | 58 | 58 | 25 | | COVINGTON | 212 | 244 | 366 | | NEW YORK U | 210 | 237 | 281 | | LYNCHBURG | 193 | 204 | | |
| WINSLOW | 391 | 475 | 251 | | LEXINGTON | 229 | 244 | 302 | | NEW YORK KENNEDY | 219 | 244 | 284 | | NORFOLK | 124 | 187 | 185 | |
| YUMA | 4 | 4 | 0 | | LOUISVILLE | 220 | 243 | 302 | | NEW YORK LA GUARDIA | 349 | 444 | 250 | | ROANOKE | 194 | 204 | 250 | |
| ARKANSAS | | | | | LOUISIANA | | | | | SYRACUSE | 388 | 572 | | | WASHINGTON | 119 | 138 | | |
| FORT SMITH | 181 | 191 | 149 | | ALFANDRIA | 113 | 113 | 56 | | NORTH CAROLINA | | | | | WASHINGTON | 535 | 955 | 759 | |
| LITTLE ROCK | 151 | 157 | 146 | | BATON ROUGE | 37 | 94 | 31 | | ASHEVILLE | 194 | 223 | 149 | | OLYMPIA | 475 | 475 | 970 | |
| CALIFORNIA | | | | | LAKE CHARLES | 37 | 94 | 31 | | CAPE HATTERAS R | 40 | 50 | 78 | | QUILLAYUTE | 435 | 722 | 671 | |
| BAKERSFIELD | 114 | 55 | 37 | | NEW ORLEANS | 24 | 24 | 17 | | CHARLOTTE | 111 | 123 | 130 | | SEATTLE TACOMA | 614 | 953 | 695 | |
| BLYND | 312 | 371 | 290 | | SHREVEPORT | 97 | 97 | 47 | | GREENSBORO | 179 | 199 | 225 | | SPOKANE | 770 | 1837 | 1888 | |
| BLUE CANYON | 388 | 504 | 551 | | MAINE | | | | | RALEIGH | 154 | 177 | 185 | | WALLA WALLA U | 411 | 743 | 397 | |
| EUREKA | 379 | 1253 | 1114 | | CARIBOU | 543 | 965 | 1211 | | WILMINGTON | 43 | 53 | 74 | | YAKIMA | 504 | 743 | | |
| FRESNO | 108 | 108 | 78 | | PORTLAND | 408 | 588 | 748 | | NORTH DAKOTA | | | | | WEST VIRGINIA | | | | |
| LONG BEACH | 21 | 21 | 52 | | MARYLAND | | | | | BISMARCK | 632 | 927 | 861 | | BECKLEY | 246 | 289 | 317 | |
| LOS ANGELES | 20 | 26 | 133 | | BALTIMORE | 149 | 169 | 312 | | FARGO | 560 | 853 | 888 | | CHARLESTON | 362 | 499 | 569 | |
| LOS ANGELES | 8 | 8 | 37 | | MASSACHUSETTS | | | | | WILLISTON | 719 | 1024 | 936 | | HUNTINGTON | 215 | 247 | 320 | |
| MT SHASTA R | 457 | 674 | 488 | | BLUE HILL OBS R | 354 | 482 | 511 | | OHIO | | | | | PARKERSBURG U | 216 | 247 | 324 | |
| OAKLAND | 191 | 448 | 275 | | BOSTON | 314 | 382 | 385 | | AKRON | 281 | 354 | 486 | | WISCONSIN | | | | |
| RED BLUFF | 121 | 121 | 53 | | WORCESTER | 410 | 598 | 637 | | CINCINNATI OBS | 213 | 245 | 302 | | GREEN BAY | 406 | 685 | 715 | |
| SACRAMENTO | 129 | 133 | 93 | | MICHIGAN | | | | | CLEVELAND | 332 | 439 | 481 | | LA CROSSE | 436 | 594 | 621 | |
| SANBERG R | 264 | 330 | 232 | | ALPENA | 478 | 774 | 1026 | | COLUMBUS | 281 | 365 | 411 | | MADISON | 431 | 673 | 713 | |
| SAN DIEGO | 12 | 12 | 58 | | DETROIT | 298 | 381 | 447 | | DAYTON | 278 | 331 | 394 | | MILWAUKEE | 436 | 673 | 713 | |
| SAN FRANCISCO | 203 | 471 | 362 | | DETROIT METRO | 339 | 463 | 527 | | MANSFIELD | 275 | 334 | 542 | | | | | | |
| SAN FRANCISCO U | 201 | 773 | 586 | | FLINT | 395 | 591 | 644 | | TOLEDO | 345 | 488 | 539 | | CASPER | 733 | 1056 | 738 | |
| SANTA MARIA | 218 | 602 | 434 | | GRAND RAPIDS | 397 | 577 | 637 | | YOUNGSTOWN | 347 | 487 | 557 | | CHEYENNE | 732 | 1042 | 814 | |
| STOCKTON | 106 | 106 | 77 | | HOUGHTON LAKE | 478 | 787 | 940 | | OKLAHOMA | | | | | LANDER | 733 | 1093 | 784 | |
| COLORADO | | | | | LANSING | 409 | 624 | 597 | | OKLAHOMA CITY | 254 | 272 | 179 | | SHERIDAN | 686 | 1042 | 814 | |
| ALAMOSA | 787 | 1202 | 1082 | | MARQUETTE | 443 | 760 | 907 | | TULSA | 217 | 235 | 179 | | | | | | |
| COLORADO SPRINGS | 637 | 877 | 622 | | MUSKOGON | 367 | 647 | 560 | | ASTORIA | 428 | 1004 | 841 | | | | | | |
| DENVER | 584 | 782 | 560 | | SAULT STE MARIE | 530 | 993 | 1060 | | BURNS U | 444 | 1020 | 774 | | | | | | |
| GRAND JUNCTION | 495 | 588 | 443 | | MINNESOTA | | | | | EUGENE | 374 | 881 | 563 | | | | | | |
| PUEBLO | 471 | 576 | 380 | | DULUTH | 610 | 1064 | 1142 | | MEACHAM | 692 | 1271 | 1076 | | | | | | |
| CONNECTICUT | | | | | INTERNATIONAL FALLS | 650 | 1051 | 1247 | | MEDFORD | 363 | 452 | 450 | | | | | | |
| BRIDGEPORT | 247 | 299 | 373 | | MINNEAP L I | 476 | 674 | 747 | | PENDLETON | 540 | 801 | 461 | | | | | | |
| HARTFORD | 322 | 411 | 477 | | ROCHESTER | 480 | 713 | 719 | | PORTLAND | 369 | 477 | 502 | | | | | | |
| DELAWARE | | | | | ST CLOUD | 569 | 828 | 849 | | JALEW | 438 | 711 | 111 | | | | | | |
| WILMINGTON | 175 | 200 | 321 | | MISSOURI | | | | | SEXTON SUMMIT R | 479 | 836 | 776 | | | | | | |
| DIST OF COLUMBIA | | | | | JACKSON | 12 | 85 | 59 | | PENNSYLVANIA | | | | | | | | | |
| WASHINGTON DULLES | 272 | 318 | | | MERIDIAN | 87 | 88 | 81 | | ALLEN TOWN | 292 | 356 | 441 | | | | | | |
| WASHINGTON NATIONAL | 131 | 148 | | | MISSOURI | | | | | ERIE | 366 | 527 | 518 | | | | | | |
| FLORIDA | | | | | COLUMBIA REGIONAL | 282 | 319 | 405 | | HARRISBURG | 213 | 252 | 311 | | | | | | |
| APALACHICOLA | 0 | 0 | 16 | | KANSAS CITY | 231 | 256 | 259 | | PHILADELPHIA | 191 | 220 | 111 | | | | | | |
| DAYTONA BEACH | 0 | 0 | 0 | | ST JOSEPH | 279 | 321 | 351 | | PITTSBURGH | 215 | 288 | 489 | | | | | | |
| FORT MYERS | 0 | 0 | | | | | | | | | | | | | | | | | |

COOLING DEGREE DAYS

(Base 65°F.)

OCTOBER 1970

| State and station | Current season | | | | State and station | Current season | | | | State and station | Current season | | | | State and station | Current season | | | |
|---------------------|----------------|-----------------------------------|------------------------------------|--|---------------------|----------------|-----------------------------------|------------------------------------|--|---------------------|----------------|-----------------------------------|------------------------------------|--|-------------------|----------------|-----------------------------------|------------------------------------|--|
| | This month | Period January through this month | Normals January through this month | | | This month | Period January through this month | Normals January through this month | | | This month | Period January through this month | Normals January through this month | | | This month | Period January through this month | Normals January through this month | |
| ALABAMA | | | | | HAWAII | | | | | NEBRASKA | | | | | SOUTH DAKOTA | | | | |
| BIRMINGHAM | 54 | 2033 | | | HILLO | 325 | 2594 | | | NORTH PLATTE | 0 | 944 | | | ABERDEEN | 3 | 773 | | |
| HUNTSVILLE | 55 | 1847 | | | HONOLULU | 426 | 4275 | | | OMAHA | 20 | 1405 | | | HURON | 4 | 908 | | |
| MOBILE | 184 | 2875 | | | KAHULUI | 418 | 3434 | | | SCOTTSBLUFF | 0 | 660 | | | RAPID CITY | 5 | 713 | | |
| MOBILE | 104 | 2814 | | | LAHUE | 425 | 3645 | | | VALENTINE | 0 | 994 | | | SIOUX FALLS | 2 | 863 | | |
| ALASKA | | | | | IDAHO | | | | | NEVADA | | | | | TENNESSEE | | | | |
| ANCHORAGE | 0 | 0 | | | BOISE | 0 | 953 | | | ELKO | 0 | 378 | | | BRISTOL | 45 | 1356 | | |
| ANNETT | 0 | 3 | | | LEWISTON | 3 | 932 | | | ELY | 0 | 230 | | | CHATTANOOGA | 44 | 1758 | | |
| BARRON | 0 | 0 | | | POCATELLO | 0 | 522 | | | LAS VEGAS | 81 | 2933 | | | KNOXVILLE | 46 | 1636 | | |
| BARTER ISLAND | 0 | 0 | | | ILLINOIS | | | | | RENO | 0 | 579 | | | MEMPHIS | 51 | 2156 | | |
| BETHEL | 0 | 0 | | | CAIRO U | 34 | 1901 | | | WINNEMUCA | 0 | 596 | | | NASHVILLE | 40 | 1738 | | |
| BETTSVILLE | 0 | 2 | | | CHICAGO O HARE | 13 | 959 | | | NEW HAMPSHIRE | | | | | OAK RIDGE R | 25 | 1444 | | |
| BIG DELTA | 0 | 2 | | | CHICAGO MIDWAY | 12 | 1163 | | | CONCORD | 6 | 489 | | | TEXAS | | | | |
| BLOOMING | 0 | 1 | | | MINNEAPOLIS | 15 | 1066 | | | MT WASHINGTON OBS | 0 | 0 | | | ABILENE | 106 | 2460 | | |
| FAIRBANKS | 0 | 22 | | | PEORIA | 6 | 972 | | | ATLANTIC CITY | 20 | 970 | | | AMARILLO | 24 | 1713 | | |
| GALENA | 0 | 0 | | | ROCKFORD | 5 | 806 | | | NEWARK | 33 | 1290 | | | AUSTIN | 134 | 2679 | | |
| HOMER | 0 | 0 | | | SPRINGFIELD | 17 | 1232 | | | TRENTON U | 27 | 1202 | | | BROWNSVILLE | 330 | 3556 | | |
| JUNEAU | 0 | 0 | | | INDIANA | | | | | ALBUQUERQUE | 4 | 1362 | | | CORPUS CHRISTI | 255 | 3048 | | |
| KING SALMON | 0 | 0 | | | EVANSVILLE | 18 | 1396 | | | CLAYTON | 3 | 863 | | | DALLAS | 118 | 2432 | | |
| KNOXVILLE | 0 | 0 | | | FORT WAYNE | 5 | 962 | | | ROSWELL | 16 | 1620 | | | DEL RIO | 135 | 2857 | | |
| MC GRATH | 0 | 0 | | | INDIANAPOLIS | 5 | 1167 | | | NEW MEXICO | | | | | EL PASO | 19 | 2183 | | |
| NOME | 0 | 0 | | | SOUTH BEND | 5 | 752 | | | ALBUQUERQUE | 4 | 1362 | | | FORT WORTH | 115 | 2561 | | |
| ST. PAUL ISLAND | 0 | 0 | | | IOWA | | | | | CLAYTON | 3 | 863 | | | GALVESTON U | 181 | 2734 | | |
| SIEMEN | 0 | 0 | | | BURLINGTON | 9 | 988 | | | CLAYTON | 3 | 863 | | | HOUSTON INTERCON | 131 | 2497 | | |
| SUMMIT | 0 | 0 | | | DES MOINES | 20 | 1191 | | | ROSWELL | 16 | 1620 | | | LUBBOCK | 32 | 1745 | | |
| TALKEETNA | 0 | 8 | | | DURHAM | 9 | 748 | | | NEW YORK | | | | | MIDLAND | 59 | 2000 | | |
| UNALAKLEET | 0 | 0 | | | SIOUX CITY | 15 | 1168 | | | ALBANY | 7 | 630 | | | PORT ARTHUR | 194 | 3029 | | |
| YAKUTAT | 0 | 0 | | | WATERLOO | 3 | 800 | | | BINGHAMTON | 0 | 373 | | | SAN ANGELO | 101 | 2566 | | |
| ARIZONA | | | | | KANSAS | | | | | BUFFALO | 12 | 599 | | | SAN ANTONIO | 163 | 2870 | | |
| FLAGSTAFF | 0 | 208 | | | CONCORDIA | 26 | 1551 | | | NEW YORK U | 30 | 1304 | | | VICTORIA | 184 | 2823 | | |
| PHOENIX | 151 | 3703 | | | DODGE CITY | 25 | 1710 | | | NEW YORK KENNEDY | 17 | 1176 | | | WACO | 136 | 2837 | | |
| TUCSON | 68 | 2652 | | | GOODLAND | 6 | 1101 | | | NEW YORK LA GUARDIA | 27 | 1236 | | | WICHITA FALLS | 76 | 2464 | | |
| WINSTON | 0 | 1239 | | | TOPEKA | 16 | 1524 | | | ROCHESTER | 13 | 704 | | | UTAH | | | | |
| YUMA | 238 | 3877 | | | WICHITA | 22 | 1848 | | | SYRACUSE | 3 | 445 | | | MILFORD | 0 | 846 | | |
| ARIZONA | | | | | KENTUCKY | | | | | ASHEVILLE | 17 | 1011 | | | SALT LAKE CITY | 0 | 993 | | |
| FORT SMITH | 47 | 2227 | | | COVINGTON | 21 | 1373 | | | CAPE HATTERAS R | 122 | 1698 | | | WENDOVER | 2 | 1163 | | |
| LITTLE ROCK | 51 | 2176 | | | LEXINGTON | 11 | 1240 | | | CHARLOTTE | 71 | 1792 | | | VERMONT | | | | |
| CALIFORNIA | | | | | LOUISVILLE | 15 | 1414 | | | GREENSBORO | 32 | 1621 | | | BURLINGTON | 1 | 462 | | |
| BAKERSFIELD | 140 | 2653 | | | LOUISIANA | | | | | RALEIGH | 38 | 1383 | | | VIRGINIA | | | | |
| BISHOP | 5 | 1143 | | | ALEXANDRIA | 66 | 2185 | | | WILMINGTON | 125 | 2078 | | | LYNCHBURG | 37 | 1300 | | |
| BLUE CANYON | 20 | 556 | | | BATON ROUGE | 111 | 2553 | | | NORTH DAKOTA | | | | | WORFOLK | 60 | 1620 | | |
| EUREKA U | 0 | 2 | | | LAKE CHARLES | 142 | 2700 | | | BISMARCK | 0 | 555 | | | RICHMOND | 67 | 1756 | | |
| FRESNO | 67 | 1916 | | | NEW ORLEANS | 148 | 2632 | | | FARGO | 3 | 659 | | | ROANOKE | 35 | 1334 | | |
| LONG BEACH | 59 | 540 | | | SHREVEPORT | 106 | 2563 | | | WILLISTON | 0 | 580 | | | WALLOPS ISLAND | 44 | 1147 | | |
| LOS ANGELES | 118 | 1389 | | | MAINE | | | | | OHIO | | | | | WASHINGTON | | | | |
| LOS ANGELES U | 1 | 379 | | | CARIBOU | 0 | 331 | | | AKRON | 18 | 853 | | | OLYMPIA | 0 | 89 | | |
| MT SHASTA R | 7 | 148 | | | PORTLAND | 0 | 409 | | | CINCINNATI OBS | 13 | 1315 | | | QUILLAYUTE | 0 | 16 | | |
| OAKLAND | 86 | 2084 | | | MARYLAND | | | | | CLEVELAND | 10 | 832 | | | SEATTLE TACOMA | 0 | 161 | | |
| RED BLUFF | 46 | 1321 | | | BALTIMORE | 45 | 1499 | | | COLUMBUS | 13 | 1023 | | | SPOKANE | 0 | 576 | | |
| SACRAMENTO | 26 | 1109 | | | MASSACHUSETTS | | | | | DAYTON | 5 | 1168 | | | STAMPEDE PASS R | 0 | 47 | | |
| SANBORN R | 58 | 686 | | | BLUE HILL OBS R | 13 | 606 | | | MANSFIELD | 16 | 1024 | | | WALLA WALLA U | 8 | 1041 | | |
| SAN DIEGO | 8 | 175 | | | BOSTON | 9 | 810 | | | TOLEDO | 10 | 709 | | | YAKIMA | 0 | 603 | | |
| SAN FRANCISCO | 10 | 142 | | | WORCESTER | 6 | 516 | | | YOUNGSTOWN | 4 | 643 | | | WEST INDIES | | | | |
| SAN FRANCISCO U | 2 | 83 | | | MICHIGAN | | | | | OKLAHOMA | | | | | SAN JUAN P.R. | 528 | 4687 | | |
| SANTA MARIA | 57 | 1542 | | | ALPENA | 2 | 355 | | | OKLAHOMA CITY | 38 | 2058 | | | SWAN ISLAND | 521 | 4807 | | |
| STOCKTON | 0 | 95 | | | DETROIT | 19 | 1016 | | | TULSA | 39 | 2161 | | | WEST VIRGINIA | | | | |
| COLORADO | | | | | DETROIT METRO | 12 | 825 | | | OREGON | | | | | BECKLEY | 11 | 606 | | |
| ALAMOSA | 0 | 535 | | | FLINT | 4 | 565 | | | ASTORIA | 0 | 8 | | | CHARLESTON | 18 | 1236 | | |
| COLORADO SPRINGS | 0 | 653 | | | GRAND RAPIDS | 6 | 673 | | | BURNS U | 0 | 427 | | | ELKINS | 1 | 367 | | |
| DENVER | 0 | 1249 | | | HOUGHTON LAKE | 1 | 382 | | | EUGENE | 0 | 370 | | | HUNTINGTON | 25 | 1185 | | |
| GRAND JUNCTION | 14 | 1471 | | | LANING | 5 | 566 | | | MEACHAM | 3 | 275 | | | PARKERSBURG U | 21 | 1262 | | |
| PUEBLO | | | | | MARQUETTE U | 7 | 440 | | | MEDFORD | 3 | 852 | | | WISCONSIN | | | | |
| CONNECTICUT | | | | | MUSKEGON | 7 | 626 | | | PENDLETON | 772 | 0 | | | GREEN BAY | 5 | 586 | | |
| BRIDGEPORT | 22 | 818 | | | SAULT STE MARIE | 0 | 164 | | | PORTLAND | 2 | 394 | | | LA CROSSE | 5 | 845 | | |
| HARTFORD | 16 | 921 | | | MINNESOTA | | | | | SALEM | 1 | 257 | | | MADISON | 4 | 584 | | |
| DELAWARE | | | | | DULUTH | 0 | 344 | | | SEXTON SUMMIT R | 26 | 357 | | | MILWAUKEE | 4 | 713 | | |
| WILMINGTON | 38 | 1328 | | | INTERNATIONAL FALLS | 0 | 393 | | | PACIFIC AREA | | | | | WYOMING | | | | |
| DIST OF COLUMBIA | 9 | 939 | | | MINNEAPOLIS | 5 | 920 | | | GUAM TAGUAC R | 460 | 4285 | | | CASPER | 0 | 535 | | |
| WASHINGTON DULLES | 63 | 1762 | | | ROCHESTER | 5 | 604 | | | JOHNSTON | 488 | 4486 | | | CHEYENNE | 0 | 403 | | |
| WASHINGTON NATIONAL | | | | | ST CLOUD | 0 | 656 | | | KOROR R | 538 | 5280 | | | LANDER | 0 | 539 | | |
| FLORIDA | | | | | MISSISSIPPI | | | | | KWAJALEIN | 487 | 5358 | | | SHERIDAN | 2 | 384 | | |
| APALACHICOLA U | 276 | 2874 | | | JACKSON | 81 | 2449 | | | MAJURO | 489 | 5028 | | | | | | | |
| DAYTONA BEACH | 373 | 3247 | | | MERIDIAN | 67 | 2273 | | | PAGO PAGO | 467 | 4654 | | | | | | | |
| FORT MYERS | 419 | 3276 | | | MISSOURI | | | | | PONAPE R | 452 | 4856 | | | | | | | |
| JACKSONVILLE | 256 | 2941 | | | COLUMBIA REGIONAL | 12 | 1288 | | | TRUK MOEN ISLAND | 506 | 5180 | | | | | | | |
| KEY WEST | 452 | 3972 | | | KANSAS CITY | 39 | 1935 | | | WAKE | 565 | 5178 | | | | | | | |
| LAKELAND U | 346 | 3070 | | | ST JOSEPH | 22 | 1807 | | | YAP R | 507 | 5040 | | | | | | | |
| LAKEVIEW | 457 | 3905 | | | ST LOUIS | 17 | 1519 | | | PENNSYLVANIA | | | | | | | | | |
| MIAMI | 380 | 3476 | | | SPRINGFIELD | 13 | 1392 | | | ALLENTOWN | 6 | 836 | | | | | | | |
| ORLANDO | 230 | 2915 | | | MONTANA | | | | | ERIE | 3 | 446 | | | | | | | |
| PEMBROKE | 190 | 2517 | | | BILLINGS | 3 | 742 | | | HARRISBURG | 24 | 1256 | | | | | | | |
| TALLAHASSEE | 353 | 3165 | | | GLASGOW | 0 | 655 | | | PHILADELPHIA | 46 | 1343 | | | | | | | |
| TAMPA | 423 | 3482 | | | GREAT FALLS | 6 | 580 | | | PITTSBURGH | 11 | 855 | | | | | | | |
| WEST PALM BEACH | | | | | HAVRE | 3 | 512 | | | SCRANTON | 2 | 573 | | | | | | | |
| GEORGIA | | | | | HELENA | 0 | 320 | | | WILLIAMSPORT | 12 | 822 | | | | | | | |
| ATHENS | 80 | 1931 | | | KALISPELL | 0 | 194 | | | RHODE ISLAND | | | | | | | | | |
| ATLANTA | 77 | 1870 | | | MILES CITY | 3 | 980 | | | BLOCK ISLAND | 5 | 466 | | | | | | | |
| AUGUSTA | 25 | 2740 | | | MISSOULA | 0 | 333 | | | PROVIDENCE | 14 | 730 | | | | | | | |
| COLUMBUS | 167 | 2529 | | | NEBRASKA | | | | | SOUTH CAROLINA | | | | | | | | | |
| MACON | 67 | 1809 | | | GRAND ISLAND | 19 | 1397 | | | CHARLESTON | 130 | 2351 | | | | | | | |
| ROME | 188 | 2518 | | | LINCOLN U | 26 | 1546 | | | CHARLESTON U | 180 | 2569 | | | | | | | |
| SAVANNAH | | | | | NORFOLK | 10 | 1160 | | | COLUMBIA | 82 | 2450 | | | | | | | |

Data from airport unless otherwise specified.
U indicates Urban, R indicates Rural, sites.

STORM SUMMARY

OCTOBER 1970

| STATE | TORNADOES | | | | | HAILSTORMS | | | | WINDSTORMS | | | | LIGHTNING | | | | # HEAVY SNOWSTORMS
AND BLIZZARDS | | | | # ICE STORMS | | | | Ø ALL OTHER | | | |
|------------------|-----------|------|--------|----------|--------|------------|----------|---------------|-------|------------|----------|---------------|-------|-----------|----------|---------------|-------|-------------------------------------|----------|---------------|-------|--------------|----------|---------------|-------|-------------|----------|---------------|-------|
| | NUMBER | DAYS | DEATHS | INJURIES | DAMAGE | DEATHS | INJURIES | DAMAGE | | DEATHS | INJURIES | DAMAGE | | DEATHS | INJURIES | DAMAGE | | DEATHS | INJURIES | DAMAGE | | DEATHS | INJURIES | DAMAGE | | DEATHS | INJURIES | DAMAGE | |
| | | | | | | | | PROP.
ERTY | CROPS | | | PROP.
ERTY | CROPS | | | PROP.
ERTY | CROPS | | | PROP.
ERTY | CROPS | | | PROP.
ERTY | CROPS | | | PROP.
ERTY | CROPS |
| Alabama * | | | | | | | | | | 0 | 0 | 5 | 0 | | | | | | | | | | | | | | | | |
| Alaska | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Arizona * | | | | | | | | | | 0 | 0 | 5 | 0 | | | | | | | | | | | | | | | | |
| Arkansas | 2 | 2 | 0 | 4 | 5 | | | | | 0 | 0 | 5 | 0 | | | | | | | | | | | | 0 | 0 | 3 | | |
| California * | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Colorado * | | | | | | | | | | 0 | 0 | 4 | 4 | | | | | | | | | | | | | | | | |
| Connecticut | 1 | 1 | 0 | 1 | 4 | | | | | 0 | 0 | 4 | 4 | | | | | | | | | | | | | | | | |
| Delaware * | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Florida | | | | | | | | | | | | | | 0 | 3 | 4 | 0 | | | | | | | | | | | | |
| Georgia | | | | | | | | | | 0 | | | | 0 | 1 | 4 | 0 | | | | | | | | | | | | |
| Hawaii * | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Idaho * | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Illinois * | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Indiana * | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Iowa | 1 | 1 | 0 | 0 | 4 | | | | | | | | | | | | 0 | 0 | 5 | 4 | | | | | | | | | |
| Kansas | | | | | | | | | | 0 | 0 | 4 | 4 | 0 | 0 | 4 | 0 | 0 | 0 | 5 | 5 | | | | | | | | |
| Kentucky * | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Louisiana | 2 | 1 | 1 | 2 | 5 | | | | | 1 | 0 | 5 | 0 | | | | | | | | | | | | 0 | 0 | 6 | ? | |
| Maine | 2 | 1 | 0 | 0 | 4 | | | | | 0 | 0 | 4 | 0 | 1 | 0 | 4 | 0 | 0 | 0 | 4 | 0 | | | | 0 | 0 | 5 | 0 | |
| Maryland * | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Massachusetts | 2 | 1 | 1 | 0 | 6 | 0 | 0 | 2 | 0 | 0 | 0 | 5 | 0 | 0 | 0 | 4 | 0 | | | | | | | | | | | | |
| Michigan | 1 | 1 | 0 | 0 | 0 | | | | | | | | | | | | | | | | | | | | | | | | |
| Minnesota | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mississippi | 8 | 1 | 0 | 5 | 5 | | | | | 0 | 2 | 5 | 3 | | | | 0 | 0 | 4 | 0 | | | | | 0 | 0 | 5 | 4 | |
| Missouri | 2 | 2 | 0 | 0 | 4 | | | | | | | | | | | | | | | | | | | | 1 | 0 | 0 | 0 | |
| Montana * | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nebraska | | | | | | | | | | | | | | | | | | 0 | 0 | 6 | 5 | | | | | | | | |
| Nevada * | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| New Hampshire | 1 | 1 | 0 | 0 | 4 | | | | | 0 | 0 | 4 | 0 | 0 | 0 | 2 | 0 | | | | | | | | | | | | |
| New Jersey * | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| New Mexico | | | | | | 0 | 0 | ? | ? | | | | | | | | | | | | | | | | | | | | |
| New York | | | | | | | | | | 1 | | 4 | | | | 4 | | | | | | | | | | | 5 | | |
| North Carolina | | | | | | | | | | 0 | 0 | 4 | 0 | 0 | 0 | 4 | 0 | | | | | | | | 0 | 1 | 5 | 4 | |
| North Dakota * | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ohio * | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Oklahoma | 8 | 5 | 4 | 86 | 7 | 0 | 0 | 4 | 0 | 0 | 1 | 4 | 0 | 0 | 0 | 4 | 0 | | | | | | | | 0 | 0 | 6 | 6 | |
| Oregon | | | | | | | | | | 1 | 0 | 4 | 0 | | | | | | | | | | | | | | | | |
| Pacific Area * | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pennsylvania | | | | | | | | | | 0 | 0 | 4 | 0 | 0 | 0 | 3 | 0 | | | | | | | | | | | | |
| Puerto Rico | | | | | | | | | | | | | | | | | | | | | | | | | 18 | ? | 7 | 7 | |
| Rhode Island * | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| South Carolina * | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| South Dakota * | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tennessee | | | | | | | | | | 0 | 0 | 4 | 0 | 0 | 0 | 4 | 0 | | | | | | | | | | | | |
| Texas | 20 | 6 | 0 | 20 | 7 | | | | | 0 | 6 | 5 | 0 | 0 | 0 | 3 | 0 | | | | | | | | 0 | 0 | 6 | 0 | |
| Utah * | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Vermont * | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| U. S. Virgin Is. | | | | | | | | | | | | | | | | | | | | | | | | | 1 | ? | 6 | 0 | |
| Virginia * | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Washington * | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| West Virginia * | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Wisconsin | 1 | 1 | 0 | 1 | 5 | | | | | 0 | 0 | 6 | 0 | 0 | 0 | 4 | 0 | | | | | | | | | | | | |
| Wyoming * | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

- * No occurrence of storms or unusual weather phenomena reported.
- + Includes heavy sleet storm.
- # Freezing drizzle and freezing rain, commonly known as glaze.
- Ø For breakdown of "All Others", and for detailed listing of other storms. see the NOAA Environmental Data Service, monthly publication STORM DATA.
- + Storm damages are placed in categories varying from 1 to 9 as follows:
 - 1 Less than \$50
 - 2 \$50 to \$500
 - 3 \$500 to \$5,000
 - 4 \$5,000 to \$50,000
 - 5 \$50,000 to \$500,000
 - 6 \$500,000 to \$5,000,000
 - 7 \$5,000,000 to \$50,000,000
 - 8 \$50,000,000 to \$500,000,000
 - 9 \$500,000,000 to \$5,000,000,000

GENERAL SUMMARY OF RIVER AND FLOOD CONDITIONS

OCTOBER 1970

Elmer R. Nelson, Office of Hydrology

Major floods occurred in the eastern two thirds of Puerto Rico during the early part of October. It was one of the most severe natural disasters to strike Puerto Rico during modern times. The total property damage was estimated at \$62 million. At least 17 people lost their lives due to mud slides and the floods.

The most significant flooding in continental United States during October were the flash floods in the French Broad Basin in North Carolina. The flooding was the most severe on the Middle Fork and East Fork of the French Broad River and on Catheys Creek. The flooding on the French Broad River was generally comparable to the floods of 1964, 1966, and 1967. The damage to crops was relatively light, far less than that experienced during the previous floods.

ATLANTIC SLOPE DRAINAGE

Heavy local rain in southwestern Maine on the 23d caused minor small stream overflow. No damage was reported.

Heavy precipitation on the 21st to the 23d caused flash flooding in the township of Rockland, N. Y. The Little Beaver Kill and Willowemoc Rivers crested one to two feet above flood stage. The town of Livingston Manor, N. Y., reported damages around \$300,000.

Locally heavy rain up to nearly 5 inches produced flash flooding of small streams in and near the mountains of Amherst and Nelson counties, Virginia.

Heavy rain during the last 3 days of the month caused flooding along the southern tributaries of the Rocky River to Norwood, N. C. The Broad River reached bankfull stage on the 31st and crested 1.2 ft. above flood stage on Nov. 1. Only minor flooding of pastures occurred at and below Blair, S. C.

EAST GULF OF MEXICO DRAINAGE

The Pearl River at Jackson, Miss., crested 2.3 ft. above flood stage on the 22d. It receded within its banks on the 23d. The minor flooding was contained by the levee system around the city. Some flash flooding occurred in low areas with poor drainage. No damage of consequence resulted from the flash flooding.

MISSISSIPPI SYSTEM

Upper Mississippi Basin.--Heavy rainfall (2.5 inches) during the night of the 8-9th caused minor flooding on the North Skunk at Sigourney, Iowa, and on Cedar Creek at Bussey, Iowa. Flood damage was limited to farm lands.

The flooding in central Illinois was a continuation of the flooding that began during the latter part of September. Heavy damage resulted from the 6.5 feet of flooding along the La Moine River at Ripley, Ill., during September. Minor to moderate flooding occurred on the Illinois River at and below La Salle, Ill. Considerable flooding occurred along the main stem of the Mississippi River in the lower reach at and below Quincy, Ill., during the latter part of September. Flooding along these streams during October was very minor.

Missouri Basin.--Heavy rain (2-3 inches) on the 5-9th produced minor flooding on the Grand, Little Blue and Chariton Rivers in Missouri. The South Chariton River at Promise City, Iowa, crested 0.9 foot above flood stage on the 9th.

The Osage River at Schell City, Mo., continued in flood from Sept. 23 through Oct. 2. The crest on Sept. 27 was nearly 5 ft. above flood stage.

. Ohio Basin.--Intense thunderstorm activity during the night of the 10-11th produced flash floods on a number of tributary streams in Transylvania County, North Carolina, and overbank flow along the French Broad River through Transylvania County and part of Henderson County. The flooding was the most severe on the Middle Fork and East Fork of the French Broad River and on Catheys Creek. Severe flooding occurred on the smaller streams such as Williamson Creek near Brevard and Wilson Mill Creek, a tributary of Catheys Creek. At some points the flood was higher than the flood of Sept. 1964, but lower than the flood of Oct. 1964.

On the French Broad River in Transylvania County, the flood was lower than the flood of Oct. 1964 and generally comparable in height to the floods of Sept. 1964, Feb. 1966, June 1967 and Aug. 1967. Table 1 lists peak stages for the flood and compares them with the floods of Sept. and Oct. 1964, Feb. 1966 and June and August 1967.

The principal damage was to public roads and bridges and to farm property, fences, ditches, field roads and land. The damage to crops was relatively light. See Table 2, Estimate of Damages.

The total rainfall causing these floods ranged from over 14 inches at the Village of Middle Fork to around 1 inch at Asheville. At the TVA recording rain gage at Rosman, N. C., 8.6 inches of rain fell in a 3-hour period beginning at 10 p.m., Oct. 10, with 10.63 inches recorded for the 24-hour period ending at 8 a.m., Oct. 11. The 24-hour amounts were 5 inches or more for all rainfall stations in the French Broad Basin upstream from Pisgah Forest and Brevard. A supplemental rainfall measurement on the Middle Fork showed 14.3 inches of rainfall for a period of about 24 hours. See table 3, Precipitation - Storm of Oct. 8-11, 1970.

Another period of heavy rainfall towards the end of the month caused minor flooding on the French Broad at Blantyre, N. C., from Oct. 30 to Nov. 1. The rainfall began in the mountains on the 28th and spread eastward. The heaviest rain ended by the close of the month and ranged between 4 and 6 inches over much of the French Broad upstream from Asheville. The French Broad rose to within 1 foot of bankfull stage at Rosman, N. C. Mostly minor rises occurred down stream from Blantyre, N. C.

White Basin.--The Cache River at Patterson, Ark., continued in flood from Sept. 23 to Oct. 5. Two other rises to above flood stage occurred during the remainder of October. The first rise was due to rains of around 2 inches on the 8-9th and the second to similar amounts on the 27-28th. The flooding continued into the middle of November. The damage from the flooding was light. However, in the flat, poorly drained areas, the higher than normal stages did not allow the fields to drain sufficiently for harvesting the crops.

Arkansas Basin.--Heavy rains (about 2.5 inches) on the 8th caused 2 feet of flooding on the Fourche Maline River at Red Oak, Okla., on the 8-9th. The heavy rains caused a road to cave in at Robber's Cave State Park, northwest of Wilburton, Okla. A truck tipped into the water and the driver was drowned.

Three inches of rainfall on the 9th in the Illinois Basin above Tahlequah, Okla., caused light flooding at Tahlequah on the 10th.

Rainfall on the 23d-24th, averaging over 3 inches in the Poteau Basin and 2 to 4 inches on the Fourche

GENERAL SUMMARY OF RIVER AND FLOOD CONDITIONS-Continued

OCTOBER 1970

Maline River at Red Oak, Okla., caused up to 5 feet of flooding in the Poteau Basin at Panama, Okla. Flooding elsewhere was minor.

Heavy rains (2 inches) on the 27th on saturated ground in the Illinois Basin produced 6 feet of flooding at Tahlequah, Okla. The 17.0 ft. crest on the 28th was the highest at this point since Jan. 1969. A man was drowned in an overbanks area while rounding up cattle.

The above normal precipitation during the latter part of the month caused a crest of 24.6 ft. (flood stage, 22 ft.) on the Arkansas River at Van Buren, Ark., on the 27th. This was the highest stage at this point since May 1, 1970 and the second highest since May 1961.

Most of the flooding in the Arkansas Basin affected agricultural lowlands. Damages from the flooding were negligible due to the relatively dormant fall season.

Red Basin.--Heavy rains associated with a cold front moving into central Oklahoma during the night of the 7-8th caused 1 to 6 inches of rain over portions of central Oklahoma and as much as 12 inches over the Washita Basin above Durwood, Okla. The Washita was out of its banks from late on the 8th to the 10th with a crest 6.1 ft. above flood stage.

Flooding occurred on the tributaries of the Red River in southeastern Oklahoma on the 9th through the 13th and again during the latter part of October. Two to 8 feet of overflow was reported on these tributaries. Minor flooding occurred on the Sulphur River in northeast Texas at Hagansport on the 12th through the 15th. The Blue River in southeastern Oklahoma sustained \$32,000 damage due to the flooding.

The Little River at Tecumseh, Okla., rose rapidly during the night of the 7-8th and was out of its banks from late on the 7th to near midnight on the 8th. The crest on the 8th was 1.6 ft. above flood stage.

WEST GULF OF MEXICO DRAINAGE

Light flooding occurred on the Calcasieu River at Kinder, La., on the 14-16th. Moderate overflow occurred on the Houston River and West Fork of the Calcasieu River on the 28-29th.

Minor flooding occurred on the Sabine River in northeast Texas at Emory and Mineola, Tex., during most of the last half of October. At Deweyville, Tex., minor overflows occurred during the last 3 days of October.

Minor flooding occurred on the Trinity River at Trinidad, Tex., on the 27-30th. During the same period, Chambers Creek near Corsicana rose and produced minor overflow. Flooding was restricted to lowlands and damage was considered minor.

A sharp rise occurred on the San Jacinto on the 23d, cresting at 45.2 ft. on the 28th at Lake Houston, Tex. The elevation of the spillway is 44.5 ft. Overflow continued over the spillway until Nov. 4.

Sharp rises occurred on the Navasota River on the 23d, reaching 11.6 ft. near Easterly, Tex., on the 27th (flood stage, 14 ft.). Bankfull stage was reached near Bryan, Tex., on the 26th.

Heavy rain (2 to 5 inches) on the 12-13th caused minor flooding on the Navidad River at Ganado, Tex., on the 12-15th. There was no reportable damage as flooding was restricted to lowlands.

Heavy rain on the 5th and above normal flow on the Conchos River caused a sudden rise of the Rio Grande River at Presidio, Tex., from an early morning stage of well below flood stage to an evening stage of 16.7 ft. Flood stage at Presidio is 12.8 ft. Due to the high water, the International Bridge at Presidio was closed to traffic during the evening of the 5th and the night

and morning of the 6th. Damage to cotton fields was minor.

PUERTO RICO

Major floods occurred in the eastern two-thirds of Puerto Rico on October 5-10. This flood was one of the most extraordinary natural disasters in Puerto Rico in modern times. It was comparable to some of the famous severe weather disasters that have affected Puerto Rico in recorded history, including the notorious hurricane disasters of Sept. 13, 1928 and Aug. 8, 1899, known as the San Felipe and San Ciriaco hurricanes.

The rainy period began on Sunday morning, Oct. 4, and ended on the late evening of Friday, Oct. 9, a total of 6 days. The total rainfall ranged up to 39.81 inches at Aceituna, Villalba. Rainfall was highest in the interior highlands. Rainfall was relatively low in the western third of the island. See table 4.

These excessive rains were associated with a tropical depression that moved westward from the Tropical Atlantic, passing over the windward Islands on Oct. 2. It caused considerable rain and property damages in the northern Windward Islands, with 5 deaths reported in Barbados. On the morning of Oct. 4, the center of the depression was located about 280 miles south of Puerto Rico. From there on the depression moved very slowly, remaining nearly stationary for long periods. On Oct. 7, the center was located about 300 miles southwest of Ponce, Puerto Rico and about 175 miles south of Santo Domingo City. The center then drifted slowly northward crossing the Dominican Republic on Oct. 8. The motion of the system was such that the rain area remained stationary over the Puerto Rico - Virgin Islands area from Oct. 4 to Oct. 8. On the morning of Oct. 9, the major part of the rain area was located to the north of Puerto Rico, but the southern edge of the area continued to affect the island on Oct. 9. By the morning of Oct. 10, the rain area was well to the north of the island, thus ending the rain. Another contributing factor in the production of rain was the establishment of a relatively strong southeasterly flow at low levels over Puerto Rico, adding an important orographic contribution.

Major flood damage occurred east of a north-south line from Manati to Ponce. Preliminary information released by the U. S. Geological Survey indicates that the individual peaks of water flow recorded in most rivers were not record peaks and had return periods of the order of 10 to 35 years. However, the length of the flood emergency and the relatively rapid recurrence of peaks was extraordinary and probably unprecedented. Some sector of the island was under a flood emergency during the entire 6-day period. Generally the maximum peaks occurred on Oct. 9 or 10. The U. S. Geological Survey publication "Water Resources Review" for Oct. 1970, lists provisional stages and discharges for the flood at selected sites in Puerto Rico.

According to Civil Defense authorities, the total property damage was around \$62 million. There were 17 deaths due to landslides and drownings, with 33 missing. Fifty-one municipalities were affected and 8,000 people were removed from low places to public shelters. Around 1,000 houses were destroyed and 4,000 damaged. Fifty-two highways were closed to traffic due to mudslides, washed out bridges and flooded roads.

Table 1
COMPARATIVE CREST STAGE DATA
FOR SELECTED STATIONS IN UPPER FRENCH BROAD BASIN
OCTOBER 11 - 12, 1970

| Stream and Station | Flood Stage (Feet) | Crest Stage (Feet) | Date | Other Floods | |
|--|--------------------|--------------------|------|--------------------|------------|
| | | | | Crest Stage (Feet) | Date |
| French Broad River
Rosman, N. C. | 8 | 10.61 | 11 | 13.9 | July 1916 |
| | | | | 13.31 | Sept. 1964 |
| | | | | 14.95 | Oct. 1964 |
| | | | | 12.50 | Feb. 1966 |
| | | | | 10.55 | June 1967 |
| | | | | 9.40 | Aug. 1967 |
| | | | | | |
| Calvert, N. C.
(former gage) | | 10.31 | | 13.5 | July 1916 |
| | | | | 14.2 | Oct. 1964 |
| | | | | | |
| Blantyre, N. C. | 17 | 20.41 | 12 | 27.1 | July 1916 |
| | | | | 21.27 | Sept. 1964 |
| | | | | 25.50 | Oct. 1964 |
| | | | | 21.11 | Feb. 1966 |
| | | | | 20.90 | June 1967 |
| | | | | 20.79 | Aug. 1967 |
| | | | | | |
| Asheville, N. C. | 8 | 5.00 | 13 | 23.1 | July 1916 |
| | | | | 7.59 | Sept. 1964 |
| | | | | 12.70 | Oct. 1964 |
| | | | | 9.14 | Feb. 1966 |
| | | | | 8.63 | June 1967 |
| | | | | 7.48 | Aug. 1967 |
| | | | | | |
| Little River
Cedar Mountain,
N. C. | | 4.18 | | 4.71 | Sept. 1964 |
| | | | | 7.30 | Oct. 1964 |
| | | | | 6.30 | Feb. 1966 |
| | | | | 4.79 | June 1967 |
| | | | | 4.94 | Aug. 1967 |
| Davidson River
Brevard, N. C. | | 5.90 | | 11.9 | June 1876 |
| | | | | 8.78 | Sept. 1964 |
| | | | | 10.64 | Oct. 1964 |
| | | | | 8.28 | Feb. 1966 |
| | | | | 7.98 | June 1967 |
| | | | | 4.91 | Aug. 1967 |

Table 2
ESTIMATE OF DAMAGES
FLOOD OF OCTOBER 11-12, 1970
UPPER FRENCH BROAD RIVER BASIN

| Item | French Broad River | | | | | Total |
|---|--------------------|-----------|-----------|-------------|-------------|------------|
| | Transylvania | Henderson | East Fork | Middle Fork | Other | |
| Farm | | | | | | |
| Corn | \$4,000 | \$2,000 | \$500 | - | - | \$6,500 |
| Other Crops | 5,000 | 2,000 | 1,000 | \$500 | \$2,000 | 10,500 |
| Fences, etc. | 6,000 | 1,000 | 2,000 | 500 | 1,000 | 10,500 |
| Land Scour | - | - | 2,000 | 1,000 | 1,000 | 4,000 |
| Highways | 20,000 | - | - | - | - | 20,000 |
| Utility | - | - | - | - | - | negligible |
| Municipal | 2,000 | - | - | - | - | 2,000 |
| Residential | - | - | - | 800 | - | 800 |
| Miscellaneous (Glen Cannon Golf Course) | - | - | - | - | - | 2,500 |
| | | | | | Total | \$56,800 |
| | | | | | Intangibles | 3,200 |
| | | | | | Total | \$60,000 |

Table 4

PUERTO RICO RAINFALL (24-hour totals in inches)
For the Period October 5 thru 10, 1970

| Station | 5th | 6th | 7th | 8th | 9th | 10th | 6-day Total |
|---------------------------------|------|-------|------|------|-------|-------|-------------|
| Aceituna, Villalba | 3.84 | 3.80 | 5.31 | 4.84 | 19.02 | 3.00 | 39.81 |
| Adjuntas 1 NW | 1.10 | 1.50 | 1.85 | 1.10 | 3.00 | 2.45 | 11.00 |
| Adjuntas Substation | 1.27 | 1.40 | 1.35 | 1.25 | 2.72 | 1.50 | 9.49 |
| Aguirre | 2.32 | 10.00 | 5.71 | 4.75 | 3.15 | 0.91 | 26.84 |
| Aibonito | 1.78 | 6.11 | 3.43 | 2.92 | 17.00 | 3.24 | 34.48 |
| Arecibo 2 SE (Cambalache) | 0.30 | 1.02 | 1.03 | 0.34 | 0.25 | 2.15 | 5.09 |
| Arecibo Ionospheric Obs. | 0.47 | 1.18 | 1.17 | 0.31 | 0.52 | 0.05 | 3.70 |
| Barranquitas | 1.26 | 4.25 | 4.05 | 2.20 | 8.70 | 8.11 | 28.57 |
| Bayaney (Arecibo) | 0.28 | 1.00 | 1.00 | 0.24 | 0.38 | 0.23 | 3.13 |
| Camuy (Barcelo Marquez Co.) | 1.01 | 1.06 | 1.35 | 1.45 | 0.07 | 0.00 | 4.94 |
| Catano | 1.08 | 2.55 | 5.02 | 0.95 | 1.24 | 0.45 | 11.29 |
| Cayey 1 E | 1.62 | 9.20 | 5.17 | 5.40 | 9.40 | 1.98 | 32.77 |
| Cerro Maravilla | 1.85 | 3.50 | 2.50 | 2.61 | 14.05 | 7.40 | 31.91 |
| Cidra 1 E | 2.85 | 7.60 | 5.82 | 2.70 | 9.87 | 1.52 | 30.36 |
| Coloso | 0.10 | 0.32 | 0.58 | 0.20 | 0.51 | 0.06 | 1.77 |
| Comerio Falls Plant 2 | 0.98 | 3.96 | 4.43 | 1.90 | 6.03 | 0.68 | 17.98 |
| Corozal Substation | 0.92 | 3.24 | 1.84 | 0.65 | 2.10 | 0.41 | 9.16 |
| Corral Viejo (W of Ponce) | 0.81 | 2.30 | 2.20 | 1.19 | 3.68 | 0.84 | 11.02 |
| Dorado 1 WNW | 1.10 | 3.65 | 4.42 | 0.43 | 0.65 | 0.62 | 10.87 |
| Dos Bocas | 1.05 | 3.16 | 1.21 | 0.20 | 1.20 | 0.15 | 6.97 |
| Ensenada (Guanica) | 0.30 | 1.25 | 3.55 | 1.00 | 0.73 | 1.62 | 8.45 |
| Fajardo | 4.30 | 7.15 | 2.96 | 4.05 | 9.35 | 0.69 | 28.50 |
| Guayama | 2.60 | 9.40 | 5.96 | 2.69 | 1.67 | 3.62 | 25.94 |
| Gurabo Substation | 1.70 | 4.14 | 5.00 | 1.81 | 11.30 | 0.74 | 24.69 |
| Hacienda Constanza | 0.71 | 0.72 | 0.75 | 0.25 | 0.00 | 0.00 | 2.43 |
| Hato Rey | 1.48 | 5.45 | 4.70 | 0.98 | 1.87 | 1.39 | 15.87 |
| Humacao | 2.70 | 3.35 | 5.60 | 3.24 | 4.60 | 3.24 | 22.73 |
| Isabela Substation | 0.05 | 0.55 | 0.57 | 0.20 | 1.25 | 0.22 | 2.84 |
| Jajome Alto | 1.75 | 8.40 | 9.10 | 5.20 | 8.90 | 2.40 | 35.75 |
| Jayuya 1 SE | 2.43 | 1.07 | 2.61 | 7.38 | 11.53 | 13.40 | 38.42 |
| Juana Diaz Camp | 1.06 | 3.40 | 5.68 | 1.52 | 7.00 | 2.50 | 21.16 |
| Juncos 1 NNE | 2.09 | 2.70 | 6.00 | 2.55 | 10.90 | 0.41 | 24.65 |
| LORSA (Cape San Juan (Fajardo)) | 3.90 | 6.55 | 6.80 | 0.80 | 9.61 | 0.08 | 27.74 |
| Manati 2 E | 0.75 | 2.35 | 1.29 | 0.53 | 0.97 | 0.94 | 6.83 |
| Maricao 2 SSW | 0.43 | 0.80 | 1.75 | 1.06 | 1.59 | 0.27 | 5.90 |
| Mayaguez Nuclear Center | 0.40 | 0.53 | 0.98 | 0.32 | 0.64 | 0.04 | 2.91 |
| Morovis | 0.95 | 3.05 | 1.64 | 1.00 | 1.55 | 0.57 | 8.76 |
| Palmarito | 1.92 | 1.12 | 2.84 | 2.32 | 4.10 | 1.90 | 14.20 |
| Pico del Este - Luquillo | 3.50 | 5.55 | 7.00 | 2.13 | 9.20 | 3.30 | 30.68 |
| Ponce 4 E (Fortuna) | 1.16 | 3.38 | 2.30 | 1.36 | 6.65 | 1.60 | 16.45 |
| Ponce Plant (PRWRA) | 0.12 | 4.10 | 3.70 | 1.02 | 3.65 | 0.87 | 13.46 |
| Quebradillas | 0.16 | 0.67 | 1.03 | 0.25 | 0.48 | 0.00 | 2.59 |
| Ramey Air Force Base | 0.04 | 0.46 | 0.60 | 0.07 | 0.83 | 0.27 | 2.27 |
| Rio Blanco Lower | 2.58 | 7.00 | 5.58 | 3.90 | 6.85 | 2.98 | 28.89 |
| Rio Piedras Experiment Sta. | 1.10 | 4.85 | 4.80 | 1.36 | 2.73 | 0.36 | 15.20 |
| Rio Piedras (Manuel Ramirez) | 0.93 | 5.05 | 5.47 | 0.72 | 2.22 | 0.55 | 14.94 |
| Rio Piedras (Monacillos) | 1.13 | 2.39 | 4.47 | 1.77 | 2.65 | 0.30 | 12.71 |
| Roosevelt Roads | 2.76 | 5.96 | 7.41 | 0.66 | 5.98 | 0.00 | 22.77 |
| Sabana Grande | 0.25 | 0.75 | 2.40 | 0.92 | 1.90 | 2.03 | 8.25 |
| San Juan City | 0.96 | 3.04 | 5.37 | 0.70 | 0.68 | 0.49 | 11.24 |
| San Juan WSFO-Isla Verde AP | 1.06 | 2.55 | 4.93 | 1.51 | 1.80 | 0.55 | 12.40 |
| San Lorenzo 3 S | 1.60 | 5.55 | 7.10 | 3.09 | 10.70 | 0.99 | 29.03 |
| San Lorenzo Farm 2 NW | 1.87 | 3.70 | 5.46 | 4.66 | 13.73 | 1.84 | 31.26 |
| San Sebastain | 0.14 | 0.60 | 0.85 | 0.26 | 0.60 | 0.00 | 2.45 |
| Toro Negro #1 (Villalba) | 1.25 | 4.06 | 3.99 | 2.51 | 6.50 | 6.08 | 24.39 |
| Toro Negro Tunnel | 1.47 | 3.90 | 3.91 | 6.14 | 8.20 | 0.20 | 23.82 |
| Trujillo Alto 2 SSE | 1.40 | 2.55 | 5.60 | 2.40 | 4.00 | 0.35 | 16.30 |
| Utua 1 WSW | 1.03 | 1.10 | 1.16 | 1.50 | 1.23 | 0.02 | 6.04 |
| Vieques Island Esperanza | 3.60 | 1.30 | 2.50 | 2.70 | 1.30 | 0.00 | 11.40 |
| Yabucca 1 NNE | 4.05 | 4.90 | 5.15 | 4.50 | 1.22 | 3.10 | 22.92 |
| Yauco 1 S | 1.95 | 3.55 | 2.00 | 1.08 | 1.95 | 0.17 | 10.70 |
| Penuelas | 3.20 | 1.90 | 0.90 | 4.65 | 1.60 | 0.00 | 12.25 |
| Guayabal | 1.07 | 3.38 | 4.00 | 1.77 | 6.75 | 1.98 | 18.95 |

Table 3 PRECIPITATION - STORM OF OCT. 8-11, 1970

| STA NO. | STATION NAME | 8 | 9 | 10 | 11 | TOTAL |
|---------|--|------|------|------|-------|-------|
| | Recording Gages | | | | | |
| 286 | Rosman TVA | .05 | .44 | .88 | 10.63 | 12.00 |
| | Quebec NWS | .6 | 1.4 | 7.4 | 9.4 | |
| 663 | Quebec TVA (From NASA rec.) | .52 | 1.26 | 5.02 | 6.80 | |
| 662 | Gloucester Gap TVA | .75 | 1.35 | 4.18 | 6.28 | |
| 283 | Cedar Mtn. TVA | 1.35 | 1.32 | 5.22 | 7.89 | |
| 282 | Pink Beds TVA | 1.00 | 2.10 | 3.15 | 6.25 | |
| 278 | Blue Ridge P.O. TVA | .51 | .38 | 1.41 | 2.30 | |
| 254 | Mt. Pisgah TVA | .95 | 1.90 | 1.94 | 4.79 | |
| 190 | Haywood Gap TVA | .18 | 1.52 | 2.48 | 2.92 | 7.10 |
| 640 | Sassafras Mtn. TVA | * | * | | 5.05 | 5.05 |
| | Other Gages | | | | | |
| 629A | Big East Fork - radio | 1.1 | 0.9 | 2.4 | 4.4 | |
| 742 | Sunburst - radio | 0.4 | 0.2 | 1.2 | 1.8 | |
| 723 | Lake Toxaway NWS | .03 | 1.95 | 1.92 | 4.55 | 8.42 |
| | NASA non-rec. NWS | .52 | .51 | 1.20 | 4.90 | 7.13 |
| 283A | Buck Forest TVA | .01 | 1.27 | 1.05 | 5.33 | 7.66 |
| 285 | Brevard NWS | .54 | 2.32 | 5.23 | 8.09 | |
| 476 | Pisgah Forest TVA | .32 | .38 | 5.85 | 6.55 | |
| 280 | Rush Mtn. TVA | 1.30 | .78 | 2.48 | 4.56 | |
| 279 | Hendersonville NWS | .48 | 1.08 | 1.65 | 3.21 | |
| | TVA - Tennessee Valley Authority | | | | | |
| | NWS - National Weather Service | | | | | |
| | NASA - National Aeronautics Space Administration | | | | | |
| | * - Accumulation | | | | | |

FLOOD STAGE DATA

(All dates in October unless otherwise specified)

OCTOBER 1970

| River and station | Flood stage | Above flood stages
-dates | | Crest * | |
|-------------------------------------|-------------|------------------------------|---------|---------|----------|
| | | From- | To- | Stage | Date |
| ATLANTIC SLOPE DRAINAGE | | | | | |
| Rocky: Norwood, N. C. | 15 | 31 | 31 | #16.15 | 31 |
| Broad: Blair, S. C. | 14 | 31 | Nov. 1 | 15.2 | Nov. 1 |
| EAST GULF OF MEXICO DRAINAGE | | | | | |
| Pearl
Jackson, Miss. | 18 | 22 | 23 | 20.3 | 22 |
| MISSISSIPPI SYSTEM | | | | | |
| Upper Mississippi Basin | | | | | |
| North Skunk: Sigourney, Iowa | 16 | 9 | 10 | 16.4 | 10 |
| Cedar Creek: Bussey, Iowa | 17 | 9 | 10 | 20.6 | 10 |
| La Moine: Ripley, Ill. | 22 | Sept. 23 | 2 | 28.6 | 27 |
| Illinois: | | | | | |
| Peoria, Ill. | 18 | Sept. 28 | 1 | 18.2 | Sept. 30 |
| Havana, Ill. | 14 | Sept. 24 | 12 | 17.3 | Sept. 30 |
| Beardstown, Ill. | 14 | Sept. 24 | 12 | 18.5 | Oct. 1 |
| Meredosia, Ill. | 16 | Sept. 25 | 10 | 35.3 | Sept. 30 |
| Big Muddy: | | | | | |
| Murphysboro, Ill. | 16 | Sept. 27 | 1 | 17.6 | Sept. 29 |
| Mississippi: | | | | | |
| Grafton, Ill. | 18 | Sept. 25 | 1 | #22.9 | Sept. 28 |
| Alton, Ill. | 21 | Sept. 25 | 1 | #25.7 | Sept. 28 |
| Chester, Ill. | 27 | Sept. 26 | 2 | #30.4 | Sept. 29 |
| Cape Girardeau, Mo. | 32 | Sept. 27 | 1 | 34.15 | Sept. 29 |
| Thebes, Ill. | 33 | Sept. 29 | 1 | 33.5 | Sept. 30 |
| Missouri Basin | | | | | |
| Little Blue:
Lake City (nr), Mo. | 18 | 9 | 10 | 18.6 | 9 |
| Grand: | | | | | |
| Chillicothe, Mo. | 24 | 9 | 10 | 26.5 | 9 |
| Sumner, Mo. | 26 | 9 | 12 | 30.7 | 10 |
| Brunswick, Mo. | 12 | 10 | 12 | 13.2 | 12 |
| South Chariton: | | | | | |
| Promise City, Iowa | 20 | 9 | 9 | 20.7 | 9 |
| Chariton: | | | | | |
| Chariton, Iowa | 12 | 8 | 14 | 16.9 | 9 |
| Novinger, Mo. | 20 | 9 | 9 | 21.2 | 9 |
| Prairie Hill, (nr), Mo. | 15 | 9 | 11 | 18.4 | 10 |
| Lamine: | | | | | |
| Clifton City, Mo. | 19 | 9 | 10 | 19.7 | 10 |
| Osage: | | | | | |
| Schell City, Mo. | 25 | Sept. 23 | 2 | 29.85 | Sept. 27 |
| Ohio Basin | | | | | |
| French Broad: | | | | | |
| Rosman, N. C. | 8 | 11 | 11 | 10.6 | 11 |
| Blantyre, N. C. | 17 | 11 | 17 | 20.4 | 12 |
| White Basin | | | | | |
| | | 30 | Nov. 1 | #17.5 | 31 |
| Cache: | | | | | |
| Patterson, Ark. | 7 | Sept. 23 | 5 | 8.8 | Sept. 27 |
| | | 14 | 24 | 7.8 | 16 |
| | | 28 | Nov. 13 | 8.2 | Nov. 4 |
| Arkansas Basin | | | | | |
| Illinois: | | | | | |
| Tahlequah, Okla. | 11 | 10 | 10 | 11.6 | 10 |
| | | 27 | 30 | 17.0 | 28 |
| Fourche Maline: | | | | | |
| Red Oak, Okla. | 15 | 8 | 9 | 16.9 | 9 |
| | | 23 | 24 | 15.4 | 24 |
| Poteau: | | | | | |
| Poteau, Okla. | 24 | 24 | 24 | 25.2 | 24 |
| Panama, Okla. | 24 | 23 | 25 | 28.8 | 24 |
| Fourche La Fave: | | | | | |
| Houston, Ark. | 25 | 28 | 29 | 26.4 | 29 |
| Arkansas: | | | | | |
| Van Buren, Ark. | 22 | 26 | 28 | 24.6 | 27 |
| Red Basin | | | | | |
| Washita: | | | | | |
| Durwood, Okla. | 27 | 8 | 10 | 33.1 | 9 |
| Blue: | | | | | |
| Blue, Okla. | 21 | 9 | 11 | 29.3 | 10 |
| | | 27 | 28 | 21.3 | 28 |
| Clear Boggy: | | | | | |
| Caney, Okla. | 19 | 9 | 13 | 24.2 | 10 |
| | | 26 | 28 | 21.9 | 27 |

| River and station | Flood stage | Above flood stages
-dates | | Crest * | |
|-------------------------------------|-------------|------------------------------|--------|------------|------|
| | | From- | To- | Stage | Date |
| Red Basin (Continued) | <i>Ft.</i> | | | <i>Ft.</i> | |
| Muddy Boggy:
Ferris, Okla. | 38 | 10 | 12 | 41.6 | 11 |
| Glover:
Glover, Okla. | 16 | 26 | 27 | 20.0 | 27 |
| Little:
Tecumseh, Okla. | 11 | 7 | 8 | 12.6 | 8 |
| Sulphur:
Hagansport, Tex. | 44 | 12 | 15 | 45.6 | 13 |
| WEST GULF OF MEXICO DRAINAGE | | | | | |
| Calcasieu:
Kinder, La. | 16 | 14 | 16 | 18.75 | 14 |
| Sabine:
Emory, Tex. | 12 | 13 | 20 | 13.1 | 15 |
| Mineola, Tex. | 14 | 17 | 25 | 15.4 | 21 |
| | | 27 | Nov. 3 | 15.5 | 31 |
| Deweyville, Tex. | 14 | 28 | 31 | 14.8 | 29 |
| Trinity:
Trinidad, Tex. | 28 | 27 | 30 | 33.55 | 29 |
| San Jancinto:
Lake Houston, Tex. | 44.5 | 25 | Nov. 4 | 45.2 | 28 |
| Navasota:
Bryan, 17 NE, Tex. | 12 | 26 | 26 | 12.0 | 26 |
| Navidad:
Ganado, Tex | 21 | 12 | 15 | 26.4 | 13 |
| Rio Grande:
Presidio, Tex. | 12.8 | 5 | 6 | 16.7 | 5 |

* Provisional

Highest Stage Observed

Average monthly values

OCTOBER 1970

RAWINSONDE DATA

Average monthly values

| CHARLESTON, S. C.
1006 MB | | | | | | | | | | CHIRAHUA, MEXICO
857 MB | | | | | | | | | | COLD BAY, ALASKA
1006 MB | | | | | | | | | | DAYTON, OHIO
992 MB | | | | | | | | | | DEL RIO, TEXAS
979 MB | | | | | | | | | |
|-----------------------------------|----------------|-------------|-----------|-----------|-------|--------------------|----------------|-------------|-----------|-----------------------------------|-------|--------------------|----------------|-------------|-----------|-----------|-------|--------------------|----------------|-----------------------------------|-----------|-----------|-------|--------------------|----------------|-------------|-----------|-----------|-------|-----------------------------------|----------------|-------------|-----------|-----------|-------|--------------------|----------------|-------------|-----------|-----------------------------------|-------|------|--|--|--|--|--|--|--|
| Standard pressure
surface (mb) | | | | | | | | | | Resultant
Wind
Speed
kts | | | | | | | | | | Resultant
Wind
Speed
kts | | | | | | | | | | Resultant
Wind
Speed
kts | | | | | | | | | | Resultant
Wind
Speed
kts | | | | | | | | | |
| No of observations | Dynamic height | Temperature | Dew Point | Direction | Speed | No of observations | Dynamic height | Temperature | Dew Point | Direction | Speed | No of observations | Dynamic height | Temperature | Dew Point | Direction | Speed | No of observations | Dynamic height | Temperature | Dew Point | Direction | Speed | No of observations | Dynamic height | Temperature | Dew Point | Direction | Speed | No of observations | Dynamic height | Temperature | Dew Point | Direction | Speed | No of observations | Dynamic height | Temperature | Dew Point | Direction | Speed | | | | | | | | |
| 31 | 13 | 16.2 | 14.5 | 22 | 2.3 | 31 | 14.28 | 12.7 | 5.7 | 26 | 7.7 | 31 | 30 | 4.0 | 1.7 | 26 | 1.4 | 31 | 299 | 9.7 | 7.3 | 24 | 1.3 | 30 | 314 | 15.7 | 12.4 | 2.0 | 2.0 | 31 | 314 | 15.7 | 12.4 | 2.0 | 2.0 | 31 | 314 | 15.7 | 12.4 | 2.0 | 2.0 | | | | | | | | |
| 1000 | 151 | 157 | 18.9 | 16.0 | 06 | 3.8 | 31 | 121 | | | | 31 | 81 | | | 26 | 2.6 | 31 | 169 | | | | 30 | 127 | | | | | 31 | 127 | | | | | 30 | 127 | | | | | | | | | | | | | |
| 950 | 990 | 17.5 | 12.6 | 09 | 5.9 | 31 | 560 | | | | | 31 | 496 | -1.4 | -1.5 | 29 | 3.5 | 31 | 599 | 11.8 | 5.2 | 20 | 4.4 | 30 | 565 | 16.9 | 11.2 | 15 | 4.1 | 31 | 565 | 16.9 | 11.2 | 15 | 4.1 | 31 | 565 | 16.9 | 11.2 | 15 | 4.1 | | | | | | | | |
| 850 | 900 | 10.59 | 14.9 | 8.1 | 09 | 4.2 | 31 | 1519 | | | | 31 | 1383 | -1.1 | -3.6 | 29 | 4.8 | 31 | 1050 | 9.9 | 2.1 | 22 | 4.3 | 30 | 1026 | 14.9 | 9.0 | 17 | 5.6 | 31 | 1026 | 14.9 | 9.0 | 17 | 5.6 | 31 | 1026 | 14.9 | 9.0 | 17 | 5.6 | | | | | | | | |
| 750 | 800 | 1.54 | 12.5 | 3.2 | 11 | 2.4 | 31 | 1478 | 12.6 | 2.4 | 26 | 1.1 | 31 | 1383 | -1.1 | -3.6 | 29 | 4.8 | 31 | 1050 | 9.9 | 2.1 | 22 | 4.3 | 30 | 1026 | 14.9 | 9.0 | 17 | 5.6 | 31 | 1026 | 14.9 | 9.0 | 17 | 5.6 | 31 | 1026 | 14.9 | 9.0 | 17 | 5.6 | | | | | | | |
| 650 | 700 | 2.048 | 9.8 | -3.4 | 14 | 1.5 | 31 | 2009 | 12.5 | 1.8 | 25 | 2.6 | 31 | 1860 | -6.1 | -11.4 | 28 | 6.2 | 31 | 2022 | 5.8 | -4.5 | 24 | 7.0 | 30 | 2018 | 11.8 | -1.3 | 24 | 4.2 | 31 | 2018 | 11.8 | -1.3 | 24 | 4.2 | 31 | 2018 | 11.8 | -1.3 | 24 | 4.2 | | | | | | | |
| 550 | 600 | 2.582 | 7.5 | -7.4 | 22 | 1.2 | 31 | 2548 | 9.9 | -1.9 | 26 | 3.3 | 31 | 2363 | -4.4 | -15.2 | 28 | 7.3 | 31 | 2548 | 3.3 | -8.4 | 24 | 7.4 | 30 | 2550 | 9.1 | -4.4 | 26 | 5.2 | 31 | 2550 | 9.1 | -4.4 | 26 | 5.2 | 31 | 2550 | 9.1 | -4.4 | 26 | 5.2 | | | | | | | |
| 450 | 500 | 3.148 | 5.1 | -11.6 | 25 | 2.8 | 31 | 3119 | 7.0 | -7.1 | 26 | 5.5 | 31 | 2895 | -11.4 | -20.0 | 28 | 8.7 | 31 | 3105 | 2.2 | -12.7 | 24 | 8.3 | 30 | 3124 | 6.0 | -7.9 | 27 | 7.0 | 31 | 3124 | 6.0 | -7.9 | 27 | 7.0 | 31 | 3124 | 6.0 | -7.9 | 27 | 7.0 | | | | | | | |
| 350 | 400 | 3.700 | 2.4 | -16.4 | 25 | 1.5 | 31 | 3724 | 3.6 | -11.7 | 26 | 6.8 | 31 | 3460 | -14.6 | -23.1 | 27 | 10.3 | 31 | 3695 | -2.9 | -15.5 | 25 | 9.2 | 30 | 3727 | 2.1 | -12.5 | 27 | 8.5 | 31 | 3727 | 2.1 | -12.5 | 27 | 8.5 | 31 | 3727 | 2.1 | -12.5 | 27 | 8.5 | | | | | | | |
| 250 | 300 | 4.200 | -1.5 | -21.5 | 25 | 4.2 | 31 | 4359 | -4.4 | -17.0 | 26 | 8.3 | 31 | 4062 | -18.3 | -26.8 | 27 | 11.9 | 31 | 4326 | -8.2 | -19.4 | 25 | 10.6 | 30 | 4369 | -1.7 | -18.0 | 27 | 9.4 | 31 | 4369 | -1.7 | -18.0 | 27 | 9.4 | 31 | 4369 | -1.7 | -18.0 | 27 | 9.4 | | | | | | | |
| 150 | 200 | 5.078 | -6.1 | -25.7 | 27 | 5.3 | 31 | 5060 | -4.6 | -21.8 | 27 | 10.3 | 31 | 4707 | -22.1 | -31.0 | 27 | 13.5 | 31 | 5001 | -10.3 | -24.8 | 25 | 11.0 | 30 | 5056 | -6.0 | -22.3 | 26 | 12.3 | 31 | 5056 | -6.0 | -22.3 | 26 | 12.3 | 31 | 5056 | -6.0 | -22.3 | 26 | 12.3 | | | | | | | |
| 50 | 100 | 5.817 | -11.1 | -29.3 | 25 | 7.7 | 31 | 5803 | -9.7 | -27.8 | 27 | 12.7 | 31 | 5402 | -26.3 | -34.8 | 27 | 14.8 | 31 | 5729 | -15.2 | -28.1 | 24 | 12.0 | 30 | 5795 | -11.0 | -29.4 | 26 | 14.3 | 31 | 5795 | -11.0 | -29.4 | 26 | 14.3 | 31 | 5795 | -11.0 | -29.4 | 26 | 14.3 | | | | | | | |
| 0 | 50 | 6.218 | -16.5 | -32.7 | 27 | 9.4 | 31 | 6807 | -15.4 | -32.0 | 27 | 15.0 | 31 | 6163 | -31.2 | -38.4 | 27 | 17.5 | 31 | 6517 | -20.6 | -33.4 | 24 | 13.3 | 30 | 6595 | -16.7 | -34.0 | 26 | 16.2 | 31 | 6595 | -16.7 | -34.0 | 26 | 16.2 | 31 | 6595 | -16.7 | -34.0 | 26 | 16.2 | | | | | | | |
| | 50 | 7.492 | -23.0 | -37.6 | 25 | 10.4 | 31 | 7485 | -22.0 | -38.1 | 27 | 17.4 | 31 | 6788 | -36.8 | -42.2 | 27 | 20.0 | 31 | 7377 | -27.1 | -38.1 | 25 | 15.0 | 30 | 7469 | -23.0 | -39.1 | 26 | 19.1 | 31 | 7469 | -23.0 | -39.1 | 26 | 19.1 | 31 | 7469 | -23.0 | -39.1 | 26 | 19.1 | | | | | | | |
| | 50 | 8.459 | -30.1 | -43.1 | 25 | 12.4 | 31 | 8456 | -29.4 | -43.8 | 27 | 19.4 | 29 | 7909 | -42.6 | -42.6 | 26 | 22.2 | 31 | 8328 | -34.3 | -43.5 | 24 | 15.9 | 30 | 8436 | -30.3 | -43.6 | 27 | 22.1 | 31 | 8436 | -30.3 | -43.6 | 27 | 22.1 | 31 | 8436 | -30.3 | -43.6 | 27 | 22.1 | | | | | | | |
| | 50 | 9.334 | -38.7 | -50.1 | 27 | 14.4 | 31 | 9334 | -37.9 | -49.9 | 27 | 21.4 | 28 | 8922 | -47.9 | | 26 | 27.0 | 31 | 9385 | -42.5 | -48.5 | 25 | 17.3 | 30 | 9511 | -38.0 | -50.2 | 27 | 24.5 | 31 | 9511 | -38.0 | -50.2 | 27 | 24.5 | 31 | 9511 | -38.0 | -50.2 | 27 | 24.5 | | | | | | | |
| | 50 | 10.761 | -48.1 | | 27 | 18.4 | 31 | 10767 | -46.7 | | 27 | 24.5 | 27 | 10120 | -50.7 | | 26 | 30.0 | 31 | 10592 | -51.6 | | 25 | 18.2 | 30 | 10741 | -47.5 | | 27 | 29.0 | 31 | 10741 | -47.5 | | 27 | 29.0 | 31 | 10741 | -47.5 | | 27 | 29.0 | | | | | | | |
| | 50 | 12.204 | -56.4 | | 27 | 21.9 | 31 | 12217 | -56.0 | | 27 | 26.0 | 26 | 11572 | -51.1 | | 26 | 27.9 | 31 | 12019 | -57.6 | | 25 | 21.2 | 30 | 12187 | -56.0 | | 27 | 31.4 | 31 | 12187 | -56.0 | | 27 | 31.4 | 31 | 12187 | -56.0 | | 27 | 31.4 | | | | | | | |
| | 50 | 13.046 | -59.6 | | 27 | 21.2 | 31 | 13058 | -60.3 | | 27 | 26.9 | 26 | 12439 | -51.6 | | 26 | 29.3 | 31 | 12860 | -58.0 | | 25 | 18.1 | 30 | 13029 | -59.5 | | 27 | 29.2 | 31 | 13029 | -59.5 | | 27 | 29.2 | 31 | 13029 | -59.5 | | 27 | 29.2 | | | | | | | |
| | 50 | 14.003 | -62.6 | | 25 | 20.1 | 31 | 14010 | -64.5 | | 26 | 25.5 | 26 | 13439 | -51.7 | | 25 | 22.0 | 31 | 13826 | -59.7 | | 25 | 16.7 | 29 | 13985 | -63.4 | | 27 | 25.9 | 31 | 13985 | -63.4 | | 27 | 25.9 | 31 | 13985 | -63.4 | | 27 | 25.9 | | | | | | | |
| | 50 | 15.121 | -65.0 | | 27 | 16.4 | 31 | 15115 | -67.9 | | 27 | 22.0 | 26 | 14420 | -52.5 | | 26 | 18.4 | 31 | 14959 | -62.0 | | 25 | 14.5 | 29 | 15073 | -67.8 | | 27 | 20.0 | 31 | 15073 | -67.8 | | 27 | 20.0 | 31 | 15073 | -67.8 | | 27 | 20.0 | | | | | | | |
| | 50 | 16.475 | -66.3 | | 27 | 10.5 | 30 | 16448 | -70.1 | | 27 | 12.5 | 25 | 16055 | -52.5 | | 25 | 15.6 | 31 | 16336 | -62.4 | | 25 | 10.4 | 29 | 16426 | -70.3 | | 27 | 17.8 | 31 | 16426 | -70.3 | | 27 | 17.8 | 31 | 16426 | -70.3 | | 27 | 17.8 | | | | | | | |
| | 50 | 17.828 | -65.0 | | 27 | 3.7 | 29 | 17778 | -69.2 | | 27 | 6.4 | 25 | 17497 | -52.7 | | 26 | 11.8 | 31 | 17719 | -60.9 | | 25 | 6.9 | 29 | 17756 | -67.8 | | 27 | 26.5 | 31 | 17756 | -67.8 | | 27 | 26.5 | 31 | 17756 | -67.8 | | 27 | 26.5 | | | | | | | |
| | 50 | 18.648 | -62.5 | | 24 | 1.3 | 27 | 18585 | -65.8 | | 27 | 4.5 | 24 | 18353 | -53.1 | | 26 | 10.2 | 31 | 18551 | -60.2 | | 25 | 4.9 | 29 | 18656 | -66.7 | | 25 | 3.7 | 31 | 18656 | -66.7 | | 25 | 3.7 | 31 | 18656 | -66.7 | | 25 | 3.7 | | | | | | | |
| | 50 | 19.603 | -60.7 | | 08 | 3.7 | 29 | 19530 | -62.3 | | 26 | 1.9 | 24 | 19346 | -53.2 | | 26 | 7.0 | 31 | 19516 | -59.0 | | 24 | 3.7 | 29 | 19512 | -62.5 | | 25 | 1.8 | 31 | 19512 | -62.5 | | 25 | 1.8 | 31 | 19512 | -62.5 | | 25 | 1.8 | | | | | | | |
| | 50 | 20.747 | -58.2 | | 08 | 2.0 | 26 | 20660 | -60.3 | | 16 | 1.6 | 24 | 20521 | -53.2 | | 26 | 6.3 | 31 | 20663 | -57.9 | | 24 | 2.1 | 29 | 20643 | -60.5 | | 14 | 1.8 | 31 | 20643 | -60.5 | | 14 | 1.8 | 31 | 20643 | -60.5 | | 14 | 1.8 | | | | | | | |
| | 50 | 22.180 | -54.3 | | 08 | 3.0 | 26 | 22059 | -58.3 | | 10 | 2.4 | 24 | 22195 | -53.1 | | 26 | 4.3 | 30 | 22076 | -56.8 | | 27 | 1.6 | 29 | 22242 | -58.2 | | 08 | 3.4 | 31 | 22242 | -58.2 | | 08 | 3.4 | 31 | 22242 | -58.2 | | 08 | 3.4 | | | | | | | |
| | 50 | 24.002 | -53.3 | | 07 | 3.7 | 24 | 23884 | -55.6 | | 10 | 4.0 | 24 | 23815 | -52.9 | | 28 | 3.8 | 30 | 23906 | -55.3 | | 31 | 1.8 | 28 | 23902 | -55.7 | | 08 | 3.1 | 31 | 23902 | -55.7 | | 08 | 3.1 | 31 | 23902 | -55.7 | | 08 | 3.1 | | | | | | | |
| | 50 | 25.181 | -51.6 | | 06 | 3.8 | 28 | 25056 | -54.1 | | 08 | 2.8 | 24 | 24979 | -52.6 | | 31 | 1.9 | 28 | 25071 | -54.3 | | 31 | 1.4 | 26 | 25031 | -53.9 | | 08 | 3.9 | 31 | 25031 | -53.9 | | 08 | 3.9 | 31 | 25031 | -53.9 | | 08 | 3.9 | | | | | | | |
| | 50 | 26.605 | -49.3 | | 05 | 4.0 | 20 | 26496 | -52.2 | | 08 | 4.2 | 20 | 26377 | -52.3 | | 03 | 1.9 | 28 | 26507 | -50.0 | | 31 | 2.6 | 25 | 26446 | -52.4 | | 08 | 3.1 | 31 | 26446 | -52.4 | | 08 | 3.1 | 31 | 26446 | -52.4 | | 08 | 3.1 | | | | | | | |
| | 50 | 28.524 | -47.6 | | 05 | 4.6 | 15 | 28377 | -49.3 | | 09 | 5.5 | 20 | 28279 | -51.7 | | 03 | 1.8 | 28 | 28376 | -50.6 | | 24 | 2.0 | 24 | 28446 | -49.3 | | 08 | 3.1 | 31 | 28446 | -49.3 | | 08 | 3.1 | 31 | 28446 | -49.3 | | 08 | 3.1 | | | | | | | |
| | 50 | 31.244 | -43.2 | | 10 | 4.1 | 31 | 31244 | -46.7 | | 15 | 30.92 | -50.1 | | 01 | 4.3 | 18 | 31050 | -46.4 | | 28 | 7.7 | 19 | 31008 | -45.2 | | 30 | 1.6 | 31 | 31008 | -45.2 | | 30 | 1.6 | 31 | 31008 | -45.2 | | 30 | 1.6 | | | | | | | | | |
| | 7 | 5 | 33.719 | -38.1 | | 7 | 5 | 33.719 | -38.1 | | 15 | 30.92 | -50.1 | | 01 | 4.3 | 18 | 31050 | -46.4 | | 28 | 7.7 | 19 | 31008 | -45.2 | | 30 | 1.6 | 31 | 31008 | -45.2 | | 30 | 1.6 | 31 | 31008 | -45.2 | | 30 | 1.6 | | | | | | | | | |

Average monthly values

OCTOBER 1970

| KEY WEST, FLA.
1013 MB | | | | | | | | | | KING SALMON, ALASKA
1006 MB | | | | | | | | | | KOROR, CAROLINE IS.
1006 MB | | | | | | | | | | KOTZEBUE, ALASKA
1011 MB | | | | | | | | | | KWAJALEIN, MARSHALL IS.
1005 MB | | | | | | | | | |
|---------------------------|--|-----|----|--------|-------|-------|-----|------|----|--------------------------------|-------|-------|------|------|--------|--------|-------|-------|-----|--------------------------------|-------|--------|-------|-------|-----|--------|-------|--------|-------|-----------------------------|-----|------|--|--|--|--|--|--|--|------------------------------------|--|--|--|--|--|--|--|--|--|
| SURFACE | | 31 | 3 | 25.5 | 22.2 | 07 | 3.1 | 30 | 15 | -3.1 | -7.6 | 01 | 6.31 | 30 | 28.2 | 25.1 | 08 | 4 | 30 | 5 | -10.2 | -13.1 | 04 | 2.8 | 31 | 4 | 27.0 | 24.2 | 08 | 5.6 | | | | | | | | | | | | | | | | | | | |
| | | 300 | 31 | 119 | 25.5 | 21.08 | 4 | 30 | 4 | 30 | 4 | 30 | 1 | 31 | 30 | 27.2 | 23.3 | 08 | 4 | 30 | 85 | -16.9 | -19.9 | 04 | 2.8 | 31 | 83 | 26.6 | 24.0 | 09 | 7.9 | | | | | | | | | | | | | | | | | | |
| | | 950 | 31 | 567 | 22.2 | 18.7 | 09 | 4.5 | 30 | 471 | -2.7 | -7.1 | 33 | 1.3 | 31 | 533 | 24.1 | 19.8 | 12 | 4 | 30 | 483 | -9.3 | -13.3 | 02 | 1.8 | 31 | 536 | 23.6 | 21.8 | 09 | 8.8 | | | | | | | | | | | | | | | | | |
| | | 900 | 31 | 1,039 | 19.4 | 13.7 | 10 | 3.8 | 30 | 899 | -4.3 | -9.2 | 32 | 2.2 | 31 | 1,005 | 21.2 | 16.2 | 14 | 1 | 30 | 900 | -10.6 | -14.5 | 35 | 2.2 | 31 | 1,008 | 20.8 | 17.7 | 09 | 8.0 | | | | | | | | | | | | | | | | | |
| | | 850 | 31 | 1,529 | 16.5 | 9.8 | 10 | 2.7 | 30 | 1,348 | -5.6 | -12.6 | 29 | 3.4 | 31 | 1,499 | 18.3 | 12.6 | 13 | 1 | 30 | 1,338 | -12.1 | -16.1 | 35 | 3.0 | 31 | 1,502 | 18.2 | 14.9 | 09 | 8.0 | | | | | | | | | | | | | | | | | |
| | | 800 | 31 | 2,044 | 13.6 | 4.9 | 10 | 1.9 | 30 | 1,823 | -7.4 | -15.7 | 29 | 5.4 | 31 | 2,017 | 15.7 | 9.4 | 12 | 1 | 30 | 1,802 | -13.2 | -20.0 | 34 | 2.3 | 31 | 2,020 | 15.8 | 11.8 | 09 | 9.2 | | | | | | | | | | | | | | | | | |
| | | 750 | 31 | 2,579 | 11.2 | -1.0 | 10 | 1.8 | 30 | 2,323 | -9.8 | -17.9 | 28 | 7.1 | 31 | 2,563 | 13.0 | 6.0 | 10 | 1 | 30 | 2,291 | -15.5 | -22.0 | 34 | 2.3 | 31 | 2,567 | 12.9 | 9.0 | 09 | 9.0 | | | | | | | | | | | | | | | | | |
| | | 700 | 31 | 3,165 | 8.4 | -7.2 | 34 | 1.7 | 30 | 2,852 | -12.8 | -21.1 | 28 | 7.9 | 31 | 3,140 | 9.7 | 2.3 | 09 | 2.2 | 30 | 2,810 | -18.2 | -24.1 | 39 | 2.3 | 31 | 3,167 | 8.4 | 4.6 | 09 | 7.3 | | | | | | | | | | | | | | | | | |
| | | 650 | 31 | 3,763 | 5.8 | -13.3 | 34 | 2.5 | 30 | 3,414 | -16.1 | -24.8 | 27 | 8.8 | 31 | 3,753 | 6.3 | -1.1 | 19 | 3.0 | 30 | 3,300 | -21.2 | -27.6 | 27 | 1.8 | 31 | 3,758 | 6.3 | 1 | 09 | 7.3 | | | | | | | | | | | | | | | | | |
| | | 600 | 31 | 4,420 | 2.1 | -16.9 | 34 | 4.1 | 30 | 4,013 | -19.8 | -28.2 | 27 | 10.1 | 31 | 4,406 | 2.7 | -5.1 | 10 | 3 | 30 | 3,946 | -25.0 | -31.0 | 26 | 2.5 | 31 | 4,411 | 2.5 | -4.6 | 09 | 6.4 | | | | | | | | | | | | | | | | | |
| | | 550 | 31 | 5,109 | -2.2 | -21.2 | 31 | 5.8 | 30 | 4,653 | -24.0 | -32.7 | 26 | 10.5 | 31 | 5,105 | -1.1 | -8.9 | 10 | 4 | 30 | 4,574 | -29.1 | -35.4 | 26 | 2.8 | 31 | 5,110 | -1.3 | -8.8 | 09 | 6.4 | | | | | | | | | | | | | | | | | |
| | | 500 | 31 | 5,867 | -7.3 | -27.6 | 31 | 6.0 | 30 | 5,343 | -28.5 | -37.4 | 26 | 12.5 | 31 | 5,860 | -5.3 | -14.0 | 10 | 4 | 30 | 5,249 | -33.6 | -39.7 | 27 | 3.7 | 31 | 5,865 | -5.4 | -13.8 | 09 | 5.2 | | | | | | | | | | | | | | | | | |
| | | 450 | 31 | 6,673 | -13.1 | -31.2 | 30 | 7.1 | 30 | 6,090 | -33.5 | -42.0 | 26 | 12.4 | 31 | 6,681 | -9.7 | -19.4 | 10 | 4 | 30 | 5,980 | -38.6 | -42.1 | 26 | 4.0 | 31 | 6,685 | -10.4 | -18.7 | 09 | 4.5 | | | | | | | | | | | | | | | | | |
| | | 400 | 31 | 7,586 | -19.1 | -35.1 | 29 | 8.1 | 30 | 6,908 | -38.7 | -43.1 | 26 | 15.2 | 31 | 7,581 | -15.3 | -25.9 | 09 | 4 | 30 | 6,780 | -44.1 | -48.1 | 26 | 4.9 | 31 | 7,587 | -16.0 | -24.9 | 09 | 3.2 | | | | | | | | | | | | | | | | | |
| | | 350 | 31 | 8,545 | -26.7 | -40.1 | 29 | 9.1 | 30 | 7,816 | -43.9 | -48.4 | 24 | 16.9 | 31 | 8,581 | -21.9 | -33.4 | 09 | 4 | 30 | 7,645 | -50.5 | -54.5 | 26 | 5.7 | 31 | 8,577 | -27.9 | -32.5 | 09 | 4.5 | | | | | | | | | | | | | | | | | |
| | | 300 | 31 | 9,638 | -35.4 | -48.6 | 29 | 13.6 | 30 | 8,835 | -49.2 | -53.7 | 24 | 20.1 | 31 | 9,674 | -28.9 | -40.6 | 09 | 4 | 30 | 8,863 | -54.3 | -58.3 | 25 | 8.7 | 31 | 9,689 | -31.3 | -40.9 | 27 | 2.1 | | | | | | | | | | | | | | | | | |
| | | 250 | 30 | 10,884 | -44.9 | -59.4 | 29 | 18.5 | 30 | 10,025 | -50.3 | -54.3 | 26 | 21.3 | 31 | 10,963 | -40.7 | -51.6 | 09 | 4 | 30 | 9,836 | -51.3 | -55.3 | 25 | 10.4 | 31 | 10,953 | -41.6 | -50.4 | 26 | 5.5 | | | | | | | | | | | | | | | | | |
| | | 200 | 30 | 12,338 | -56.3 | -72.2 | 28 | 21.2 | 30 | 11,485 | -49.4 | -53.4 | 27 | 20.2 | 31 | 12,441 | -53.2 | -64.9 | 09 | 4 | 30 | 11,296 | -48.9 | -52.9 | 25 | 10.8 | 31 | 12,425 | -54.1 | -62.0 | 26 | 9.1 | | | | | | | | | | | | | | | | | |
| | | 175 | 30 | 13,174 | -62.2 | -78.2 | 29 | 21.9 | 30 | 12,361 | -49.6 | -53.6 | 27 | 19.8 | 31 | 13,288 | -60.6 | -72.3 | 09 | 4 | 30 | 12,174 | -48.5 | -52.5 | 25 | 11.0 | 31 | 13,268 | -61.1 | -72.7 | 27 | 10.7 | | | | | | | | | | | | | | | | | |
| | | 150 | 30 | 14,114 | -67.6 | -83.6 | 29 | 19.0 | 30 | 13,039 | -49.9 | -53.9 | 26 | 18.1 | 31 | 14,231 | -68.2 | -80.0 | 09 | 4 | 30 | 13,189 | -48.3 | -52.3 | 25 | 11.3 | 31 | 14,208 | -68.8 | -80.7 | 27 | 12.5 | | | | | | | | | | | | | | | | | |
| | | 125 | 30 | 15,198 | -72.2 | -88.2 | 28 | 13.9 | 30 | 14,559 | -50.8 | -54.8 | 26 | 16.2 | 31 | 15,331 | -76.0 | -87.8 | 09 | 4 | 30 | 14,391 | -48.2 | -52.2 | 25 | 11.2 | 31 | 15,279 | -76.0 | -87.7 | 27 | 12.7 | | | | | | | | | | | | | | | | | |
| | | 100 | 30 | 16,504 | -73.9 | -90.9 | 29 | 6.9 | 30 | 16,163 | -50.7 | -54.7 | 26 | 14.6 | 31 | 16,569 | -82.3 | -94.1 | 09 | 4 | 30 | 15,862 | -48.6 | -52.6 | 25 | 11.3 | 31 | 16,552 | -81.2 | -93.7 | 27 | 14.4 | | | | | | | | | | | | | | | | | |
| | | 70 | 30 | 17,819 | -69.3 | -85.3 | 02 | 1.5 | 29 | 17,470 | -51.0 | -55.0 | 26 | 11.7 | 31 | 17,826 | -87.2 | -99.0 | 08 | 9 | 29 | 17,332 | -48.7 | -52.7 | 25 | 11.4 | 31 | 17,817 | -76.6 | -88.5 | 08 | 1.9 | | | | | | | | | | | | | | | | | |
| | | 80 | 30 | 18,623 | -65.3 | -81.3 | 08 | 3.8 | 29 | 18,339 | -51.3 | -55.3 | 26 | 10.7 | 31 | 18,601 | -72.3 | -84.1 | 08 | 10 | 28 | 18,210 | -48.7 | -52.7 | 25 | 11.4 | 31 | 18,592 | -72.5 | -84.5 | 08 | 5.9 | | | | | | | | | | | | | | | | | |
| | | 50 | 29 | 19,564 | -60.3 | -76.3 | 10 | 5.5 | 28 | 19,345 | -51.4 | -55.4 | 26 | 8.7 | 31 | 19,518 | -68.3 | -80.1 | 09 | 15 | 29 | 19,222 | -49.0 | -53.0 | 25 | 12.4 | 31 | 19,508 | -69.0 | -81.0 | 09 | 11.8 | | | | | | | | | | | | | | | | | |
| | | 50 | 29 | 20,692 | -60.7 | -76.7 | 09 | 6.2 | 28 | 20,527 | -51.9 | -55.9 | 26 | 7.6 | 31 | 20,622 | -66.3 | -78.1 | 09 | 22 | 28 | 20,414 | -49.6 | -53.6 | 25 | 11.6 | 31 | 20,605 | -66.3 | -78.3 | 09 | 18.9 | | | | | | | | | | | | | | | | | |
| | | 30 | 28 | 22,689 | -58.3 | -74.3 | 09 | 8.2 | 27 | 21,977 | -52.0 | -56.0 | 27 | 6.2 | 31 | 21,997 | -60.9 | -72.7 | 09 | 28 | 28 | 21,874 | -50.2 | -54.2 | 25 | 12.1 | 31 | 21,971 | -62.0 | -74.0 | 09 | 27.0 | | | | | | | | | | | | | | | | | |
| | | 30 | 28 | 23,919 | -53.6 | -69.6 | 09 | 8.6 | 26 | 23,845 | -51.6 | -55.6 | 27 | 4.7 | 29 | 23,808 | -64.8 | -76.6 | 09 | 33 | 28 | 23,735 | -50.5 | -54.5 | 25 | 12.1 | 31 | 23,913 | -53.6 | -65.6 | 09 | 27.5 | | | | | | | | | | | | | | | | | |
| | | 20 | 27 | 25,994 | -51.7 | -67.7 | 08 | 8.6 | 24 | 25,032 | -51.5 | -55.5 | 28 | 4.9 | 29 | 24,943 | -61.9 | -73.7 | 09 | 27 | 29 | 24,843 | -51.7 | -55.7 | 25 | 12.1 | 31 | 24,945 | -52.0 | -64.0 | 09 | 31.2 | | | | | | | | | | | | | | | | | |
| | | 20 | 26 | 26,547 | -49.9 | -65.9 | 09 | 8.8 | 24 | 26,481 | -51.5 | -55.5 | 28 | 4.9 | 29 | 26,446 | -67.1 | -78.9 | 10 | 22 | 24 | 26,403 | -51.1 | -55.1 | 28 | 14.1 | 31 | 26,401 | -48.2 | -60.2 | 09 | 21.6 | | | | | | | | | | | | | | | | | |
| | | 15 | 22 | 28,453 | -46.1 | -62.1 | 09 | 9.0 | 13 | 28,043 | -51.2 | -55.2 | 28 | 2.4 | 28 | 28,379 | -62.2 | -74.0 | 09 | 2.2 | 18 | 28,265 | -50.5 | -54.5 | 28 | 12.6 | 31 | 28,314 | -44.2 | -56.2 | 08 | 4.5 | | | | | | | | | | | | | | | | | |
| | | 10 | 17 | 31,176 | -40.6 | -56.6 | 10 | 5.3 | | | | | | 28 | 31,151 | -38.3 | | 27 | 3.2 | | | | | | 40 | 31,054 | -39.8 | | 26 | 1.6 | | | | | | | | | | | | | | | | | | | |
| | | 5 | 7 | 33,524 | -37.2 | | | | | | | | | 19 | 33,632 | -34.7 | | | | | | | | | 18 | 33,504 | -36.9 | | 25 | 1.7 | | | | | | | | | | | | | | | | | | | |

Schwarz, P. O., & G. J. Lachar (1987). The effect of age and gender on memory performance.

Average monthly values

DE GRUYTER

| MONTERREY, MEXICO
963 MB | | | | | | | | | | MONTGOMERY, ALA.
1011 MB | | | | | | | | | | * NANTUCKET, MASS.
1022 MB | | | | | | | | | | NASHVILLE, TENN.
998 MB | | | | | | | | | | * NOME, ALASKA
1008 MB | | | | | | | | | |
|-----------------------------|----|--------|-------|-------|-----|------|--------|--------|-------|-----------------------------|-----|------|--------|--------|-------|-------|-----|------|--------|-------------------------------|-------|-------|-----|--------|--------|--------|--------|-------|-----|----------------------------|-----|--|--|--|--|--|--|--|--|---------------------------|--|--|--|--|--|--|--|--|--|
| SURFACE | 28 | -23 | 16.2 | 14.3 | 34 | .8 | 31 | 57 | 14.9 | 13.1 | 06 | 1.3 | 31 | 13 | 11.4 | 8.6 | 04 | 1.5 | 31 | 180 | 11.9 | 9.9 | 13 | .5 | 31 | 5 | -5.2 | -9.5 | 01 | 1.3 | | | | | | | | | | | | | | | | | | | |
| 1000 | 28 | 127 | | | | | 31 | 151 | 16.3 | 12.9 | 09 | 2.8 | 31 | 192 | 11.7 | 7.8 | 11 | .6 | 31 | 159 | | | | | 31 | 66 | | | 01 | 2.0 | | | | | | | | | | | | | | | | | | | |
| 500 | 28 | 56.7 | 16.9 | 13.3 | 04 | | 31 | 58.9 | 16.6 | 12.2 | 13 | 2.4 | 31 | 621 | 9.6 | 4.7 | 29 | 9 | 31 | 592 | 13.7 | 7.2 | 16 | 4.1 | 31 | 66 | -6.3 | -10.4 | 03 | 1.4 | | | | | | | | | | | | | | | | | | | |
| 900 | 28 | 1,029 | 13.5 | 10.7 | 10 | 2.4 | 31 | 1,049 | 14.5 | 9.5 | 10 | 4.0 | 31 | 1,068 | 7.5 | .6 | 30 | 1.7 | 31 | 1,047 | 11.9 | 3.5 | 19 | 5.3 | 31 | 890 | -8.7 | -12.5 | 34 | 1.4 | | | | | | | | | | | | | | | | | | | |
| 850 | 28 | 1,514 | 13.7 | 6.6 | 14 | 2.6 | 31 | 1,531 | 12.4 | 3.3 | 17 | 3.1 | 31 | 1,537 | 5.6 | -3.1 | 28 | 2.7 | 31 | 1,524 | 10.1 | -1.6 | 20 | 5.1 | 31 | 1,331 | -10.8 | -14.5 | 34 | 2.2 | | | | | | | | | | | | | | | | | | | |
| 800 | 26 | 2,026 | 13.2 | 1.3 | 1.9 | .9 | 31 | 2,038 | 10.2 | -1.1 | 20 | 2.4 | 31 | 2,032 | 4.0 | -8.3 | 28 | 3.5 | 31 | 2,027 | 7.9 | -.6 | 22 | 5.2 | 31 | 1,796 | -12.5 | -18.6 | 32 | 2.7 | | | | | | | | | | | | | | | | | | | |
| 750 | 26 | 2,568 | 11.5 | -2.1 | 2.3 | 2.7 | 31 | 2,572 | 7.5 | -7.2 | 22 | 3.1 | 31 | 2,555 | 2.0 | -13.4 | 28 | 4.0 | 31 | 2,557 | 5.3 | -.6 | 22 | 6.4 | 31 | 2,287 | -14.4 | -21.4 | 31 | 3.1 | | | | | | | | | | | | | | | | | | | |
| 700 | 26 | 3,142 | 8.4 | -6.2 | 2.6 | 5.5 | 31 | 3,138 | 4.9 | -11.1 | 24 | 4.2 | 31 | 3,109 | -1.0 | -15.6 | 27 | 4.9 | 31 | 3,117 | 2.1 | -10.4 | 23 | 6.8 | 31 | 2,807 | -17.5 | -25.6 | 31 | 3.6 | | | | | | | | | | | | | | | | | | | |
| 650 | 26 | 3,750 | 4.6 | -10.7 | 2.6 | 6.8 | 31 | 3,739 | 1.8 | -14.1 | 25 | 5.8 | 31 | 3,697 | -3.8 | -19.1 | 28 | 5.9 | 31 | 3,715 | -1.0 | -14.7 | 23 | 8.1 | 31 | 3,355 | -20.8 | -29.2 | 29 | 4.6 | | | | | | | | | | | | | | | | | | | |
| 600 | 26 | 4,300 | -.5 | -15.2 | 2.5 | 7.3 | 31 | 4,286 | -2.7 | -17.9 | 25 | 6.8 | 31 | 4,324 | -6.8 | -23.5 | 28 | 7.6 | 31 | 4,347 | 1.1 | -18.5 | 23 | 10.0 | 31 | 3,969 | -27.8 | -34.0 | 28 | 4.6 | | | | | | | | | | | | | | | | | | | |
| 550 | 26 | 5,090 | -3.5 | -21.0 | 2.5 | 8.1 | 31 | 5,066 | -6.4 | -22.9 | 25 | 8.9 | 31 | 4,999 | -11.0 | -26.8 | 27 | 8.6 | 31 | 5,026 | -.9 | -22.4 | 24 | 10.5 | 31 | 4,574 | -28.7 | -37.7 | 28 | 5.9 | | | | | | | | | | | | | | | | | | | |
| 500 | 28 | 5,837 | -8.3 | -26.4 | 2.5 | 10.0 | 31 | 5,803 | -11.5 | -27.2 | 25 | 10.3 | 31 | 5,725 | -15.6 | -30.4 | 27 | 9.4 | 31 | 5,757 | -13.7 | -26.0 | 24 | 11.6 | 31 | 5,250 | -33.4 | -42.7 | 27 | 7.0 | | | | | | | | | | | | | | | | | | | |
| 450 | 26 | 6,646 | -14.2 | -30.9 | 2.6 | 12.1 | 31 | 6,602 | -17.2 | -32.0 | 26 | 12.4 | 31 | 6,512 | -21.0 | -35.1 | 27 | 10.8 | 31 | 6,550 | -19.1 | -31.9 | 25 | 13.0 | 31 | 5,982 | -38.2 | -46.0 | 28 | 8.6 | | | | | | | | | | | | | | | | | | | |
| 400 | 26 | 7,528 | -20.7 | -35.3 | 2.6 | 14.1 | 31 | 7,475 | -23.5 | -37.0 | 26 | 14.8 | 31 | 7,372 | -27.0 | -40.7 | 27 | 12.1 | 31 | 7,415 | -25.8 | -38.5 | 25 | 15.2 | 31 | 6,784 | -43.6 | | 27 | 8.3 | | | | | | | | | | | | | | | | | | | |
| 350 | 26 | 8,504 | -27.9 | -41.2 | 2.6 | 16.6 | 31 | 8,440 | -30.0 | -42.8 | 27 | 16.8 | 31 | 8,324 | -34.0 | -46.5 | 27 | 15.2 | 31 | 8,371 | -33.1 | -44.7 | 25 | 16.1 | 31 | 7,674 | -49.1 | | 27 | 9.4 | | | | | | | | | | | | | | | | | | | |
| 300 | 26 | 9,590 | -36.2 | -48.5 | 2.6 | 19.6 | 31 | 9,514 | -38.9 | -47.6 | 26 | 19.1 | 31 | 9,383 | -42.1 | -51.4 | 28 | 15.2 | 31 | 9,333 | -41.3 | -48.2 | 22 | 16.6 | 31 | 8,676 | -53.6 | | 27 | 9.4 | | | | | | | | | | | | | | | | | | | |
| 250 | 26 | 10,830 | -45.5 | -55.5 | 2.6 | 22.6 | 31 | 10,740 | -48.6 | -54.6 | 26 | 22.3 | 31 | 10,580 | -50.0 | -59.0 | 26 | 20.8 | 31 | 10,530 | -49.0 | -56.0 | 22 | 18.1 | 31 | 9,969 | -61.9 | | 26 | 12.9 | | | | | | | | | | | | | | | | | | | |
| 200 | 26 | 12,285 | -55.5 | | 2.6 | 25.4 | 31 | 12,181 | -56.7 | | 26 | 26.7 | 31 | 12,023 | -57.4 | | 28 | 18.1 | 31 | 12,080 | -57.4 | | 26 | 25.1 | 31 | 11,304 | -68.9 | | 25 | 13.1 | | | | | | | | | | | | | | | | | | | |
| 175 | 26 | 13,127 | -60.6 | | 2.6 | 28.0 | 31 | 13,021 | -59.8 | | 27 | 26.3 | 31 | 12,865 | -58.3 | | 28 | 17.7 | 31 | 12,926 | -59.3 | | 26 | 23.7 | 31 | 12,182 | -68.6 | | 25 | 12.8 | | | | | | | | | | | | | | | | | | | |
| 150 | 26 | 14,073 | -66.3 | | 2.6 | 24.1 | 31 | 13,977 | -62.6 | | 27 | 22.5 | 31 | 13,833 | -58.9 | | 28 | 15.2 | 31 | 13,887 | -61.3 | | 26 | 20.1 | 31 | 13,197 | -68.4 | | 25 | 12.8 | | | | | | | | | | | | | | | | | | | |
| 125 | 26 | 15,165 | -70.9 | | 2.6 | 19.7 | 31 | 15,092 | -66.2 | | 26 | 16.8 | 31 | 14,973 | -60.9 | | 28 | 11.7 | 31 | 15,012 | -63.6 | | 26 | 17.1 | 31 | 14,399 | -68.5 | | 25 | 12.2 | | | | | | | | | | | | | | | | | | | |
| 100 | 26 | 16,478 | -73.3 | | 2.6 | 12.4 | 31 | 16,438 | -67.3 | | 26 | 11.6 | 31 | 16,356 | -61.6 | | 28 | 7.8 | 31 | 16,376 | -65.0 | | 26 | 11.7 | 31 | 15,867 | -68.4 | | 25 | 11.9 | | | | | | | | | | | | | | | | | | | |
| 80 | 28 | 17.88 | -70.4 | | 2.6 | 3.9 | 31 | 17,785 | -65.9 | | 27 | 5.6 | 31 | 17,743 | -60.2 | | 28 | 5.6 | 31 | 17,740 | -63.4 | | 26 | 5.9 | 31 | 17,335 | -64.0 | | 25 | 12.0 | | | | | | | | | | | | | | | | | | | |
| 60 | 28 | 16.39 | -69.6 | | 2.6 | 1.1 | 31 | 18,600 | -63.4 | | 26 | 1.4 | 31 | 18,580 | -59.0 | | 28 | 4.2 | 31 | 18,569 | -62.1 | | 26 | 3.5 | 31 | 18,212 | -69.2 | | 25 | 11.0 | | | | | | | | | | | | | | | | | | | |
| 40 | 26 | 14.353 | -63.6 | | 11 | 2.5 | 31 | 19,552 | -61.4 | | 18 | -.0 | 31 | 19,546 | -58.6 | | 28 | 3.0 | 31 | 19,527 | -60.3 | | 22 | 1.4 | 29 | 19,218 | -69.1 | | 25 | ..6 | | | | | | | | | | | | | | | | | | | |
| 50 | 21 | 20,661 | -61.9 | | 09 | 4.1 | 31 | 20,690 | -59.2 | | 10 | 1.3 | 31 | 20,695 | -57.5 | | 31 | 1.9 | 31 | 20,668 | -58.7 | | 17 | .5 | 28 | 20,404 | -50.0 | | 25 | 11.1 | | | | | | | | | | | | | | | | | | | |
| 40 | 20 | 22,053 | -59.1 | | 09 | 6.0 | 31 | 22,095 | -57.3 | | 09 | 2.1 | 31 | 22,107 | -57.0 | | 36 | 1.7 | 29 | 22,075 | -57.2 | | 10 | 1.3 | 27 | 21,863 | -50.3 | | 25 | 10.3 | | | | | | | | | | | | | | | | | | | |
| 30 | 19 | 23,868 | -56.1 | | 09 | 6.3 | 31 | 23,925 | -54.9 | | 08 | 2.8 | 29 | 23,937 | -55.8 | | 31 | 2.2 | 29 | 23,904 | -55.1 | | 06 | 2.9 | 26 | 23,742 | -50.4 | | 27 | 7.7 | | | | | | | | | | | | | | | | | | | |
| 20 | 15 | 25,032 | -54.3 | | 08 | 6.6 | 31 | 25,095 | -53.4 | | 08 | 4.9 | 29 | 25,102 | -54.4 | | 31 | 2.5 | 27 | 25,078 | -53.7 | | 05 | 2.6 | 26 | 24,931 | -50.4 | | 27 | 7.7 | | | | | | | | | | | | | | | | | | | |
| 10 | 9 | 26,844 | -50.9 | | 07 | 27 | 26,847 | -49.9 | | 08 | 4.1 | 27 | 26,852 | -52.5 | | 36 | 2.7 | 23 | 26,857 | -52.2 | | 04 | 2.4 | 26 | 26,387 | -50.4 | | 27 | 7.7 | | | | | | | | | | | | | | | | | | | | |
| 0 | 7 | 33,125 | -44.5 | | 02 | 1.8 | 31 | 33,127 | -44.5 | | 02 | 1.8 | 31 | 33,127 | -44.5 | | 31 | 2.9 | 18 | 33,201 | -23.4 | | 31 | 1.9 | 24 | 33,153 | -50.3 | | 28 | 9.4 | | | | | | | | | | | | | | | | | | | |
| 0 | 7 | 33,352 | -41.6 | | 02 | 1.6 | 31 | 33,101 | -46.6 | | 02 | 1.6 | 31 | 33,101 | -46.6 | | 31 | 13 | 33,061 | -46.4 | | 31 | 13 | 33,061 | -46.4 | | 33,321 | -49.1 | | 28 | 9.8 | | | | | | | | | | | | | | | | | | |

See reference 6.18 at end of table

Average monthly values

OCTOBER 1970

See reference site at end of table

RAWINSONDE DATA

Average monthly values

| SAN DIEGO, CALIF. | | | | | | | | | | SAN JUAN, P. R. | | | | | | | | | | SAULT STE MARIE, MICH. | | | | | | | | | | SHREVEPORT, LA. | | | | | | | | | | |
|-------------------|--------------------|----------------|-------------|-----------|-----------|-------|-------|--------------------|----------------|-----------------|-----------|-----------|-------|-------|--------------------|----------------|-------------|-----------|-----------|------------------------|-------|--------------------|----------------|-------------|-----------|-----------|-------|-------|--------------------|-----------------|-------------|-----------|-----------|-------|-------|-----|------|------|----|-----|
| 1000 MB | | | | | | | | | | 991 MB | | | | | | | | | | 991 MB | | | | | | | | | | 1007 MB | | | | | | | | | | |
| Standard pressure | No of observations | Dynamic height | Temperature | Dew Point | Direction | Speed | Miles | No of observations | Dynamic height | Temperature | Dew Point | Direction | Speed | Miles | No of observations | Dynamic height | Temperature | Dew Point | Direction | Speed | Miles | No of observations | Dynamic height | Temperature | Dew Point | Direction | Speed | Miles | No of observations | Dynamic height | Temperature | Dew Point | Direction | Speed | Miles | | | | | |
| SURFACE | 31 | 121 | 14.3 | 9.6 | 36 | 1.6 | 31 | 110 | 25.5 | 22.1 | 1.4 | 31 | 221 | 6.1 | 4.4 | 13 | 2.6 | 31 | 36 | 5.4 | 8.4 | 5.3 | 31 | 79 | 14.0 | 12.3 | 14 | 5.5 | 31 | 137 | 14.7 | 10.9 | 19 | 4.1 | 31 | 174 | 14.7 | 10.9 | 19 | 4.1 |
| 1000 | 31 | 121 | 14.3 | 9.6 | 36 | 1.6 | 31 | 110 | 25.5 | 22.1 | 1.4 | 31 | 221 | 6.1 | 4.4 | 13 | 2.6 | 31 | 36 | 5.4 | 8.4 | 5.3 | 31 | 79 | 14.0 | 12.3 | 14 | 5.5 | 31 | 137 | 14.7 | 10.9 | 19 | 4.1 | 31 | 174 | 14.7 | 10.9 | 19 | 4.1 |
| 950 | 31 | 121 | 14.3 | 9.6 | 36 | 1.6 | 31 | 110 | 25.5 | 22.1 | 1.4 | 31 | 221 | 6.1 | 4.4 | 13 | 2.6 | 31 | 36 | 5.4 | 8.4 | 5.3 | 31 | 79 | 14.0 | 12.3 | 14 | 5.5 | 31 | 137 | 14.7 | 10.9 | 19 | 4.1 | 31 | 174 | 14.7 | 10.9 | 19 | 4.1 |
| 900 | 31 | 121 | 14.3 | 9.6 | 36 | 1.6 | 31 | 110 | 25.5 | 22.1 | 1.4 | 31 | 221 | 6.1 | 4.4 | 13 | 2.6 | 31 | 36 | 5.4 | 8.4 | 5.3 | 31 | 79 | 14.0 | 12.3 | 14 | 5.5 | 31 | 137 | 14.7 | 10.9 | 19 | 4.1 | 31 | 174 | 14.7 | 10.9 | 19 | 4.1 |
| 850 | 31 | 121 | 14.3 | 9.6 | 36 | 1.6 | 31 | 110 | 25.5 | 22.1 | 1.4 | 31 | 221 | 6.1 | 4.4 | 13 | 2.6 | 31 | 36 | 5.4 | 8.4 | 5.3 | 31 | 79 | 14.0 | 12.3 | 14 | 5.5 | 31 | 137 | 14.7 | 10.9 | 19 | 4.1 | 31 | 174 | 14.7 | 10.9 | 19 | 4.1 |
| 800 | 31 | 121 | 14.3 | 9.6 | 36 | 1.6 | 31 | 110 | 25.5 | 22.1 | 1.4 | 31 | 221 | 6.1 | 4.4 | 13 | 2.6 | 31 | 36 | 5.4 | 8.4 | 5.3 | 31 | 79 | 14.0 | 12.3 | 14 | 5.5 | 31 | 137 | 14.7 | 10.9 | 19 | 4.1 | 31 | 174 | 14.7 | 10.9 | 19 | 4.1 |
| 750 | 31 | 121 | 14.3 | 9.6 | 36 | 1.6 | 31 | 110 | 25.5 | 22.1 | 1.4 | 31 | 221 | 6.1 | 4.4 | 13 | 2.6 | 31 | 36 | 5.4 | 8.4 | 5.3 | 31 | 79 | 14.0 | 12.3 | 14 | 5.5 | 31 | 137 | 14.7 | 10.9 | 19 | 4.1 | 31 | 174 | 14.7 | 10.9 | 19 | 4.1 |
| 700 | 31 | 121 | 14.3 | 9.6 | 36 | 1.6 | 31 | 110 | 25.5 | 22.1 | 1.4 | 31 | 221 | 6.1 | 4.4 | 13 | 2.6 | 31 | 36 | 5.4 | 8.4 | 5.3 | 31 | 79 | 14.0 | 12.3 | 14 | 5.5 | 31 | 137 | 14.7 | 10.9 | 19 | 4.1 | 31 | 174 | 14.7 | 10.9 | 19 | 4.1 |
| 650 | 31 | 121 | 14.3 | 9.6 | 36 | 1.6 | 31 | 110 | 25.5 | 22.1 | 1.4 | 31 | 221 | 6.1 | 4.4 | 13 | 2.6 | 31 | 36 | 5.4 | 8.4 | 5.3 | 31 | 79 | 14.0 | 12.3 | 14 | 5.5 | 31 | 137 | 14.7 | 10.9 | 19 | 4.1 | 31 | 174 | 14.7 | 10.9 | 19 | 4.1 |
| 600 | 31 | 121 | 14.3 | 9.6 | 36 | 1.6 | 31 | 110 | 25.5 | 22.1 | 1.4 | 31 | 221 | 6.1 | 4.4 | 13 | 2.6 | 31 | 36 | 5.4 | 8.4 | 5.3 | 31 | 79 | 14.0 | 12.3 | 14 | 5.5 | 31 | 137 | 14.7 | 10.9 | 19 | 4.1 | 31 | 174 | 14.7 | 10.9 | 19 | 4.1 |
| 550 | 31 | 121 | 14.3 | 9.6 | 36 | 1.6 | 31 | 110 | 25.5 | 22.1 | 1.4 | 31 | 221 | 6.1 | 4.4 | 13 | 2.6 | 31 | 36 | 5.4 | 8.4 | 5.3 | 31 | 79 | 14.0 | 12.3 | 14 | 5.5 | 31 | 137 | 14.7 | 10.9 | 19 | 4.1 | 31 | 174 | 14.7 | 10.9 | 19 | 4.1 |
| 500 | 31 | 121 | 14.3 | 9.6 | 36 | 1.6 | 31 | 110 | 25.5 | 22.1 | 1.4 | 31 | 221 | 6.1 | 4.4 | 13 | 2.6 | 31 | 36 | 5.4 | 8.4 | 5.3 | 31 | 79 | 14.0 | 12.3 | 14 | 5.5 | 31 | 137 | 14.7 | 10.9 | 19 | 4.1 | 31 | 174 | 14.7 | 10.9 | 19 | 4.1 |
| 450 | 31 | 121 | 14.3 | 9.6 | 36 | 1.6 | 31 | 110 | 25.5 | 22.1 | 1.4 | 31 | 221 | 6.1 | 4.4 | 13 | 2.6 | 31 | 36 | 5.4 | 8.4 | 5.3 | 31 | 79 | 14.0 | 12.3 | 14 | 5.5 | 31 | 137 | 14.7 | 10.9 | 19 | 4.1 | 31 | 174 | 14.7 | 10.9 | 19 | 4.1 |
| 400 | 31 | 121 | 14.3 | 9.6 | 36 | 1.6 | 31 | 110 | 25.5 | 22.1 | 1.4 | 31 | 221 | 6.1 | 4.4 | 13 | 2.6 | 31 | 36 | 5.4 | 8.4 | 5.3 | 31 | 79 | 14.0 | 12.3 | 14 | 5.5 | 31 | 137 | 14.7 | 10.9 | 19 | 4.1 | 31 | 174 | 14.7 | 10.9 | 19 | 4.1 |
| 350 | 31 | 121 | 14.3 | 9.6 | 36 | 1.6 | 31 | 110 | 25.5 | 22.1 | 1.4 | 31 | 221 | 6.1 | 4.4 | 13 | 2.6 | 31 | 36 | 5.4 | 8.4 | 5.3 | 31 | 79 | 14.0 | 12.3 | 14 | 5.5 | 31 | 137 | 14.7 | 10.9 | 19 | 4.1 | 31 | 174 | 14.7 | 10.9 | 19 | 4.1 |
| 300 | 31 | 121 | 14.3 | 9.6 | 36 | 1.6 | 31 | 110 | 25.5 | 22.1 | 1.4 | 31 | 221 | 6.1 | 4.4 | 13 | 2.6 | 31 | 36 | 5.4 | 8.4 | 5.3 | 31 | 79 | 14.0 | 12.3 | 14 | 5.5 | 31 | 137 | 14.7 | 10.9 | 19 | 4.1 | 31 | 174 | 14.7 | 10.9 | 19 | 4.1 |
| 250 | 31 | 121 | 14.3 | 9.6 | 36 | 1.6 | 31 | 110 | 25.5 | 22.1 | 1.4 | 31 | 221 | 6.1 | 4.4 | 13 | 2.6 | 31 | 36 | 5.4 | 8.4 | 5.3 | 31 | 79 | 14.0 | 12.3 | 14 | 5.5 | 31 | 137 | 14.7 | 10.9 | 19 | 4.1 | 31 | 174 | 14.7 | 10.9 | 19 | 4.1 |
| 200 | 31 | 121 | 14.3 | 9.6 | 36 | 1.6 | 31 | 110 | 25.5 | 22.1 | 1.4 | 31 | 221 | 6.1 | 4.4 | 13 | 2.6 | 31 | 36 | 5.4 | 8.4 | 5.3 | 31 | 79 | 14.0 | 12.3 | 14 | 5.5 | 31 | 137 | 14.7 | 10.9 | 19 | 4.1 | 31 | 174 | 14.7 | 10.9 | 19 | 4.1 |
| 150 | 31 | 121 | 14.3 | 9.6 | 36 | 1.6 | 31 | 110 | 25.5 | 22.1 | 1.4 | 31 | 221 | 6.1 | 4.4 | 13 | 2.6 | 31 | 36 | 5.4 | 8.4 | 5.3 | 31 | 79 | 14.0 | 12.3 | 14 | 5.5 | 31 | 137 | 14.7 | 10.9 | 19 | 4.1 | 31 | 174 | 14.7 | 10.9 | 19 | 4.1 |
| 100 | 31 | 121 | 14.3 | 9.6 | 36 | 1.6 | 31 | 110 | 25.5 | 22.1 | 1.4 | 31 | 221 | 6.1 | 4.4 | 13 | 2.6 | 31 | 36 | 5.4 | 8.4 | 5.3 | 31 | 79 | 14.0 | 12.3 | 14 | 5.5 | 31 | 137 | 14.7 | 10.9 | 19 | 4.1 | 31 | 174 | 14.7 | 10.9 | 19 | 4.1 |
| 50 | 31 | 121 | 14.3 | 9.6 | 36 | 1.6 | 31 | 110 | 25.5 | 22.1 | 1.4 | 31 | 221 | 6.1 | 4.4 | 13 | 2.6 | 31 | 36 | 5.4 | 8.4 | 5.3 | 31 | 79 | 14.0 | 12.3 | 14 | 5.5 | 31 | 137 | 14.7 | 10.9 | 19 | 4.1 | 31 | 174 | 14.7 | 10.9 | 19 | 4.1 |
| 0 | 31 | 121 | 14.3 | 9.6 | 36 | 1.6 | 31 | 110 | 25.5 | 22.1 | 1.4 | 31 | 221 | 6.1 | 4.4 | 13 | 2.6 | 31 | 36 | 5.4 | 8.4 | 5.3 | 31 | 79 | 14.0 | 12.3 | 14 | 5.5 | 31 | 137 | 14.7 | 10.9 | 19 | 4.1 | 31 | 174 | 14.7 | 10.9 | 19 | 4.1 |

See reference table at end of table

RAWINSONDE DATA

Average monthly values

OCTOBER 1970

| WASHINGTON DULLES INT. AP
1012 MB | | | | | | | | | | WAYCROSS, GA.
1012 MB | | | | | | | | | | WINNEMUCCA, NEV.
872 MB | | | | | | | | | | WINSLOW, ARIZ.
852 MB | | | | | | | | | | YAKUTAT, ALASKA
1005 MB | | | | | | | | | |
|--------------------------------------|--|--|--|--|--|--|--|--|--|-----------------------------------|--|--|--|--|--|--|--|--|--|-----------------------------------|--|--|--|--|--|--|--|--|--|-----------------------------------|--|--|--|--|--|--|--|--|--|-----------------------------------|--|--|--|--|--|--|--|--|--|
| Standard pressure
surface (mb) | | | | | | | | | | Standard pressure
surface (mb) | | | | | | | | | | Standard pressure
surface (mb) | | | | | | | | | | Standard pressure
surface (mb) | | | | | | | | | | Standard pressure
surface (mb) | | | | | | | | | |
| No. of observations | | | | | | | | | | No. of observations | | | | | | | | | | No. of observations | | | | | | | | | | No. of observations | | | | | | | | | | No. of observations | | | | | | | | | |
| Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | |
| Temperature | | | | | | | | | | Temperature | | | | | | | | | | Temperature | | | | | | | | | | Temperature | | | | | | | | | | Temperature | | | | | | | | | |
| Dew Point | | | | | | | | | | Dew Point | | | | | | | | | | Dew Point | | | | | | | | | | Dew Point | | | | | | | | | | Dew Point | | | | | | | | | |
| Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | |
| Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | |
| Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | |
| No. of observations | | | | | | | | | | No. of observations | | | | | | | | | | No. of observations | | | | | | | | | | No. of observations | | | | | | | | | | No. of observations | | | | | | | | | |
| Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | |
| Temperature | | | | | | | | | | Temperature | | | | | | | | | | Temperature | | | | | | | | | | Temperature | | | | | | | | | | Temperature | | | | | | | | | |
| Dew Point | | | | | | | | | | Dew Point | | | | | | | | | | Dew Point | | | | | | | | | | Dew Point | | | | | | | | | | Dew Point | | | | | | | | | |
| Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | |
| Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | |
| Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | |
| No. of observations | | | | | | | | | | No. of observations | | | | | | | | | | No. of observations | | | | | | | | | | No. of observations | | | | | | | | | | No. of observations | | | | | | | | | |
| Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | |
| Temperature | | | | | | | | | | Temperature | | | | | | | | | | Temperature | | | | | | | | | | Temperature | | | | | | | | | | Temperature | | | | | | | | | |
| Dew Point | | | | | | | | | | Dew Point | | | | | | | | | | Dew Point | | | | | | | | | | Dew Point | | | | | | | | | | Dew Point | | | | | | | | | |
| Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | |
| Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | |
| Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | |
| No. of observations | | | | | | | | | | No. of observations | | | | | | | | | | No. of observations | | | | | | | | | | No. of observations | | | | | | | | | | No. of observations | | | | | | | | | |
| Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | |
| Temperature | | | | | | | | | | Temperature | | | | | | | | | | Temperature | | | | | | | | | | Temperature | | | | | | | | | | Temperature | | | | | | | | | |
| Dew Point | | | | | | | | | | Dew Point | | | | | | | | | | Dew Point | | | | | | | | | | Dew Point | | | | | | | | | | Dew Point | | | | | | | | | |
| Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | |
| Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | |
| Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | |
| No. of observations | | | | | | | | | | No. of observations | | | | | | | | | | No. of observations | | | | | | | | | | No. of observations | | | | | | | | | | No. of observations | | | | | | | | | |
| Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | |
| Temperature | | | | | | | | | | Temperature | | | | | | | | | | Temperature | | | | | | | | | | Temperature | | | | | | | | | | Temperature | | | | | | | | | |
| Dew Point | | | | | | | | | | Dew Point | | | | | | | | | | Dew Point | | | | | | | | | | Dew Point | | | | | | | | | | Dew Point | | | | | | | | | |
| Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | |
| Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | |
| Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | |
| No. of observations | | | | | | | | | | No. of observations | | | | | | | | | | No. of observations | | | | | | | | | | No. of observations | | | | | | | | | | No. of observations | | | | | | | | | |
| Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | |
| Temperature | | | | | | | | | | Temperature | | | | | | | | | | Temperature | | | | | | | | | | Temperature | | | | | | | | | | Temperature | | | | | | | | | |
| Dew Point | | | | | | | | | | Dew Point | | | | | | | | | | Dew Point | | | | | | | | | | Dew Point | | | | | | | | | | Dew Point | | | | | | | | | |
| Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | |
| Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | |
| Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | |
| No. of observations | | | | | | | | | | No. of observations | | | | | | | | | | No. of observations | | | | | | | | | | No. of observations | | | | | | | | | | No. of observations | | | | | | | | | |
| Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | |
| Temperature | | | | | | | | | | Temperature | | | | | | | | | | Temperature | | | | | | | | | | Temperature | | | | | | | | | | Temperature | | | | | | | | | |
| Dew Point | | | | | | | | | | Dew Point | | | | | | | | | | Dew Point | | | | | | | | | | Dew Point | | | | | | | | | | Dew Point | | | | | | | | | |
| Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | |
| Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | |
| Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | |
| No. of observations | | | | | | | | | | No. of observations | | | | | | | | | | No. of observations | | | | | | | | | | No. of observations | | | | | | | | | | No. of observations | | | | | | | | | |
| Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | |
| Temperature | | | | | | | | | | Temperature | | | | | | | | | | Temperature | | | | | | | | | | Temperature | | | | | | | | | | Temperature | | | | | | | | | |
| Dew Point | | | | | | | | | | Dew Point | | | | | | | | | | Dew Point | | | | | | | | | | Dew Point | | | | | | | | | | Dew Point | | | | | | | | | |
| Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | |
| Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | |
| Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | |
| No. of observations | | | | | | | | | | No. of observations | | | | | | | | | | No. of observations | | | | | | | | | | No. of observations | | | | | | | | | | No. of observations | | | | | | | | | |
| Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | |
| Temperature | | | | | | | | | | Temperature | | | | | | | | | | Temperature | | | | | | | | | | Temperature | | | | | | | | | | Temperature | | | | | | | | | |
| Dew Point | | | | | | | | | | Dew Point | | | | | | | | | | Dew Point | | | | | | | | | | Dew Point | | | | | | | | | | Dew Point | | | | | | | | | |
| Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | |
| Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | |
| Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | |
| No. of observations | | | | | | | | | | No. of observations | | | | | | | | | | No. of observations | | | | | | | | | | No. of observations | | | | | | | | | | No. of observations | | | | | | | | | |
| Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | |
| Temperature | | | | | | | | | | Temperature | | | | | | | | | | Temperature | | | | | | | | | | Temperature | | | | | | | | | | Temperature | | | | | | | | | |
| Dew Point | | | | | | | | | | Dew Point | | | | | | | | | | Dew Point | | | | | | | | | | Dew Point | | | | | | | | | | Dew Point | | | | | | | | | |
| Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | |
| Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | |
| Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | |
| No. of observations | | | | | | | | | | No. of observations | | | | | | | | | | No. of observations | | | | | | | | | | No. of observations | | | | | | | | | | No. of observations | | | | | | | | | |
| Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | |
| Temperature | | | | | | | | | | Temperature | | | | | | | | | | Temperature | | | | | | | | | | Temperature | | | | | | | | | | Temperature | | | | | | | | | |
| Dew Point | | | | | | | | | | Dew Point | | | | | | | | | | Dew Point | | | | | | | | | | Dew Point | | | | | | | | | | Dew Point | | | | | | | | | |
| Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | |
| Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | |
| Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | |
| No. of observations | | | | | | | | | | No. of observations | | | | | | | | | | No. of observations | | | | | | | | | | No. of observations | | | | | | | | | | No. of observations | | | | | | | | | |
| Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | |
| Temperature | | | | | | | | | | Temperature | | | | | | | | | | Temperature | | | | | | | | | | Temperature | | | | | | | | | | Temperature | | | | | | | | | |
| Dew Point | | | | | | | | | | Dew Point | | | | | | | | | | Dew Point | | | | | | | | | | Dew Point | | | | | | | | | | Dew Point | | | | | | | | | |
| Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | |
| Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | |
| Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | |
| No. of observations | | | | | | | | | | No. of observations | | | | | | | | | | No. of observations | | | | | | | | | | No. of observations | | | | | | | | | | No. of observations | | | | | | | | | |
| Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | |
| Temperature | | | | | | | | | | Temperature | | | | | | | | | | Temperature | | | | | | | | | | Temperature | | | | | | | | | | Temperature | | | | | | | | | |
| Dew Point | | | | | | | | | | Dew Point | | | | | | | | | | Dew Point | | | | | | | | | | Dew Point | | | | | | | | | | Dew Point | | | | | | | | | |
| Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | |
| Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | |
| Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | |
| No. of observations | | | | | | | | | | No. of observations | | | | | | | | | | No. of observations | | | | | | | | | | No. of observations | | | | | | | | | | No. of observations | | | | | | | | | |
| Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | |
| Temperature | | | | | | | | | | Temperature | | | | | | | | | | Temperature | | | | | | | | | | Temperature | | | | | | | | | | Temperature | | | | | | | | | |
| Dew Point | | | | | | | | | | Dew Point | | | | | | | | | | Dew Point | | | | | | | | | | Dew Point | | | | | | | | | | Dew Point | | | | | | | | | |
| Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | |
| Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | |
| Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | |
| No. of observations | | | | | | | | | | No. of observations | | | | | | | | | | No. of observations | | | | | | | | | | No. of observations | | | | | | | | | | No. of observations | | | | | | | | | |
| Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | |
| Temperature | | | | | | | | | | Temperature | | | | | | | | | | Temperature | | | | | | | | | | Temperature | | | | | | | | | | Temperature | | | | | | | | | |
| Dew Point | | | | | | | | | | Dew Point | | | | | | | | | | Dew Point | | | | | | | | | | Dew Point | | | | | | | | | | Dew Point | | | | | | | | | |
| Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | |
| Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | |
| Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | |
| No. of observations | | | | | | | | | | No. of observations | | | | | | | | | | No. of observations | | | | | | | | | | No. of observations | | | | | | | | | | No. of observations | | | | | | | | | |
| Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | |
| Temperature | | | | | | | | | | Temperature | | | | | | | | | | Temperature | | | | | | | | | | Temperature | | | | | | | | | | Temperature | | | | | | | | | |
| Dew Point | | | | | | | | | | Dew Point | | | | | | | | | | Dew Point | | | | | | | | | | Dew Point | | | | | | | | | | Dew Point | | | | | | | | | |
| Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | |
| Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | |
| Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | |
| No. of observations | | | | | | | | | | No. of observations | | | | | | | | | | No. of observations | | | | | | | | | | No. of observations | | | | | | | | | | No. of observations | | | | | | | | | |
| Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | |
| Temperature | | | | | | | | | | Temperature | | | | | | | | | | Temperature | | | | | | | | | | Temperature | | | | | | | | | | Temperature | | | | | | | | | |
| Dew Point | | | | | | | | | | Dew Point | | | | | | | | | | Dew Point | | | | | | | | | | Dew Point | | | | | | | | | | Dew Point | | | | | | | | | |
| Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | |
| Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | |
| Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | |
| No. of observations | | | | | | | | | | No. of observations | | | | | | | | | | No. of observations | | | | | | | | | | No. of observations | | | | | | | | | | No. of observations | | | | | | | | | |
| Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | |
| Temperature | | | | | | | | | | Temperature | | | | | | | | | | Temperature | | | | | | | | | | Temperature | | | | | | | | | | Temperature | | | | | | | | | |
| Dew Point | | | | | | | | | | Dew Point | | | | | | | | | | Dew Point | | | | | | | | | | Dew Point | | | | | | | | | | Dew Point | | | | | | | | | |
| Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | |
| Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | |
| Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | |
| No. of observations | | | | | | | | | | No. of observations | | | | | | | | | | No. of observations | | | | | | | | | | No. of observations | | | | | | | | | | No. of observations | | | | | | | | | |
| Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | |
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| Dew Point | | | | | | | | | | Dew Point | | | | | | | | | | Dew Point | | | | | | | | | | Dew Point | | | | | | | | | | Dew Point | | | | | | | | | |
| Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | |
| Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | |
| Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | |
| No. of observations | | | | | | | | | | No. of observations | | | | | | | | | | No. of observations | | | | | | | | | | No. of observations | | | | | | | | | | No. of observations | | | | | | | | | |
| Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | |
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| Dew Point | | | | | | | | | | Dew Point | | | | | | | | | | Dew Point | | | | | | | | | | Dew Point | | | | | | | | | | Dew Point | | | | | | | | | |
| Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | |
| Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | |
| Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | |
| No. of observations | | | | | | | | | | No. of observations | | | | | | | | | | No. of observations | | | | | | | | | | No. of observations | | | | | | | | | | No. of observations | | | | | | | | | |
| Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | |
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| Dew Point | | | | | | | | | | Dew Point | | | | | | | | | | Dew Point | | | | | | | | | | Dew Point | | | | | | | | | | Dew Point | | | | | | | | | |
| Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | |
| Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | |
| Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | |
| No. of observations | | | | | | | | | | No. of observations | | | | | | | | | | No. of observations | | | | | | | | | | No. of observations | | | | | | | | | | No. of observations | | | | | | | | | |
| Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | |
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| Dew Point | | | | | | | | | | Dew Point | | | | | | | | | | Dew Point | | | | | | | | | | Dew Point | | | | | | | | | | Dew Point | | | | | | | | | |
| Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | |
| Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | |
| Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | |
| No. of observations | | | | | | | | | | No. of observations | | | | | | | | | | No. of observations | | | | | | | | | | No. of observations | | | | | | | | | | No. of observations | | | | | | | | | |
| Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | |
| Temperature | | | | | | | | | | Temperature | | | | | | | | | | Temperature | | | | | | | | | | Temperature | | | | | | | | | | Temperature | | | | | | | | | |
| Dew Point | | | | | | | | | | Dew Point | | | | | | | | | | Dew Point | | | | | | | | | | Dew Point | | | | | | | | | | Dew Point | | | | | | | | | |
| Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | |
| Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | |
| Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | |
| No. of observations | | | | | | | | | | No. of observations | | | | | | | | | | No. of observations | | | | | | | | | | No. of observations | | | | | | | | | | No. of observations | | | | | | | | | |
| Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | |
| Temperature | | | | | | | | | | Temperature | | | | | | | | | | Temperature | | | | | | | | | | Temperature | | | | | | | | | | Temperature | | | | | | | | | |
| Dew Point | | | | | | | | | | Dew Point | | | | | | | | | | Dew Point | | | | | | | | | | Dew Point | | | | | | | | | | Dew Point | | | | | | | | | |
| Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | |
| Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | |
| Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | |
| No. of observations | | | | | | | | | | No. of observations | | | | | | | | | | No. of observations | | | | | | | | | | No. of observations | | | | | | | | | | No. of observations | | | | | | | | | |
| Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | |
| Temperature | | | | | | | | | | Temperature | | | | | | | | | | Temperature | | | | | | | | | | Temperature | | | | | | | | | | Temperature | | | | | | | | | |
| Dew Point | | | | | | | | | | Dew Point | | | | | | | | | | Dew Point | | | | | | | | | | Dew Point | | | | | | | | | | Dew Point | | | | | | | | | |
| Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | |
| Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | |
| Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | |
| No. of observations | | | | | | | | | | No. of observations | | | | | | | | | | No. of observations | | | | | | | | | | No. of observations | | | | | | | | | | No. of observations | | | | | | | | | |
| Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | |
| Temperature | | | | | | | | | | Temperature | | | | | | | | | | Temperature | | | | | | | | | | Temperature | | | | | | | | | | Temperature | | | | | | | | | |
| Dew Point | | | | | | | | | | Dew Point | | | | | | | | | | Dew Point | | | | | | | | | | Dew Point | | | | | | | | | | Dew Point | | | | | | | | | |
| Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | |
| Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | |
| Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | |
| No. of observations | | | | | | | | | | No. of observations | | | | | | | | | | No. of observations | | | | | | | | | | No. of observations | | | | | | | | | | No. of observations | | | | | | | | | |
| Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | |
| Temperature | | | | | | | | | | Temperature | | | | | | | | | | Temperature | | | | | | | | | | Temperature | | | | | | | | | | Temperature | | | | | | | | | |
| Dew Point | | | | | | | | | | Dew Point | | | | | | | | | | Dew Point | | | | | | | | | | Dew Point | | | | | | | | | | Dew Point | | | | | | | | | |
| Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | |
| Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | |
| Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | |
| No. of observations | | | | | | | | | | No. of observations | | | | | | | | | | No. of observations | | | | | | | | | | No. of observations | | | | | | | | | | No. of observations | | | | | | | | | |
| Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | |
| Temperature | | | | | | | | | | Temperature | | | | | | | | | | Temperature | | | | | | | | | | Temperature | | | | | | | | | | Temperature | | | | | | | | | |
| Dew Point | | | | | | | | | | Dew Point | | | | | | | | | | Dew Point | | | | | | | | | | Dew Point | | | | | | | | | | Dew Point | | | | | | | | | |
| Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | |
| Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | |
| Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | |
| No. of observations | | | | | | | | | | No. of observations | | | | | | | | | | No. of observations | | | | | | | | | | No. of observations | | | | | | | | | | | | | | | | | | | |

SOLAR RADIATION INTENSITIES

Tabulated in langleys per minute on a surface normal to the direction of the sun.

| Sun's zenith distance | | | | | | | | | |
|-----------------------|--------|---------|---------|---------|---------|---------|---------|---------|---------|
| Date | A. M. | | | | * | P. M. | | | |
| | 78.7° | 75.7° | 70.7° | 60.0° | | 60.0° | 70.7° | 75.7° | 78.7° |
| TUCSON, ARIZ. | | | | | | | | | |
| Air mass | | | | | | | | | |
| | 4.56 | 3.65 | 2.74 | 1.83 | * | 1.83 | 2.74 | 3.65 | 4.56 |
| OCT. | | | | | | | | | |
| 1----- | | | | 1.08 | 1.30 | | | | |
| 2----- | | | | 1.06 | 1.24 | | | | |
| 3----- | H 0.72 | 0.80 | 0.92 | 1.00 | 1.12 | H 0.93 | H 0.74 | H 0.62 | H 0.54 |
| 4----- | .51 | .59 | .77 | 1.07 | 1.28 | 1.14 | .94 | .82 | .70 |
| 5----- | .67 | .77 | .89 | 1.07 | 1.28 | 1.14 | .94 | .82 | .70 |
| 6----- | .77 | .87 | .99 | 1.16 | 1.31 | 1.20 | 1.05 | .93 | .81 |
| 7----- | .87 | .96 | 1.07 | 1.21 | 1.35 | 1.19 | .92 | | |
| 8----- | .97 | 1.08 | 1.19 | 1.34 | 1.47 | 1.31 | 1.15 | 1.03 | .94 |
| 9----- | .96 | 1.04 | 1.17 | 1.28 | 1.45 | 1.29 | 1.16 | 1.03 | .94 |
| 10----- | .93 | 1.03 | 1.15 | 1.30 | | | | | |
| 11----- | .82 | .94 | 1.06 | 1.23 | 1.39 | 1.26 | 1.10 | .98 | .87 |
| 12----- | .93 | 1.02 | 1.15 | 1.26 | 1.39 | 1.25 | 1.07 | .97 | .87 |
| 13----- | | | | | 1.18 | .98 | .92 | .81 | |
| 14----- | .86 | .96 | 1.08 | 1.24 | 1.34 | 1.25 | 1.01 | | |
| 15----- | .81 | .92 | 1.03 | 1.19 | | 1.15 | | .87 | |
| 16----- | .66 | | | 1.09 | 1.29 | | | .66 | |
| 17----- | .77 | .88 | 1.01 | 1.19 | 1.34 | 1.20 | 1.00 | .81 | .74 |
| 18----- | .79 | .87 | 1.01 | 1.21 | 1.35 | 1.21 | .98 | | |
| 19----- | .76 | .88 | 1.01 | 1.19 | 1.35 | 1.21 | 1.05 | .96 | .84 |
| 20----- | .78 | .92 | 1.03 | 1.27 | 1.40 | 1.26 | 1.08 | .97 | .87 |
| 21----- | | | 1.14 | 1.27 | 1.37 | 1.25 | 1.07 | .95 | .85 |
| 22----- | .82 | .93 | 1.08 | 1.26 | 1.42 | 1.21 | 1.06 | .94 | .82 |
| 23----- | .91 | 1.02 | 1.14 | 1.29 | 1.36 | 1.26 | 1.10 | | .89 |
| 24----- | .87 | .98 | 1.12 | 1.29 | 1.37 | 1.27 | 1.09 | .95 | .86 |
| 25----- | .86 | .97 | 1.11 | 1.28 | 1.42 | 1.31 | 1.15 | 1.02 | .88 |
| 26----- | .99 | 1.08 | 1.20 | | | | | .98 | |
| 27----- | | | | | 1.36 | | | | |
| 28----- | | | | | 1.36 | | | | |
| 29----- | .94 | 1.03 | 1.14 | 1.26 | 1.36 | 1.05 | | | |
| 30----- | | 1.02 | 1.12 | 1.26 | 1.35 | 1.15 | 1.11 | .98 | .87 |
| 31----- | | | | | | | | | |
| AVER-
AGES | 0.82 | 0.94 | 1.07 | 1.21 | 1.35 | 1.21 | 1.04 | .92 | 0.84 |
| OMAHA, NEBR. | | | | | | | | | |
| Air mass | | | | | | | | | |
| | 4.78 | 3.82 | 2.87 | 1.91 | * | 1.91 | 2.87 | 3.82 | 4.78 |
| OCT. | | | | | | | | | |
| 1----- | | | | | HS 1.29 | HM 1.09 | | HM 0.53 | HM 0.45 |
| 2----- | | | | | HS 1.08 | HM 1.06 | HM 0.87 | HS .75 | HS .67 |
| 3----- | | HS 1.00 | HS 0.88 | HS 1.04 | HS 1.37 | HS 1.21 | HS 1.05 | HS .90 | HS .64 |
| 4----- | 0.63 | .73 | .87 | 1.05 | HM 1.20 | HS 1.04 | HS .84 | HS .66 | HS .58 |
| 5----- | | | | | | HS 1.23 | HS 1.06 | HS .97 | HS .87 |
| 6----- | | | | | | | HS 1.03 | HM .86 | HM .76 |
| 7----- | | | | | | | 1.10 | .97 | |
| 8----- | .88 | .98 | 1.05 | 1.21 | 1.33 | | 1.14 | 1.08 | .97 |
| 9----- | .92 | 1.01 | 1.11 | HS 1.21 | 1.31 | | | | .84 |
| 10----- | HS .81 | HS .92 | HS 1.05 | HS 1.20 | HS 1.29 | 1.18 | 1.00 | .84 | |
| 11----- | HM .62 | | | | | | | | |
| 12----- | | .91 | 1.03 | | | | | | |
| 13----- | | | | | | | | | |
| 14----- | | | | | | | | | |
| 15----- | | | | | | | | | |
| 16----- | | | | | | | | | |
| 17----- | | | | | | | | | |
| 18----- | | | | | | | | | |
| 19----- | | | | | | | | | |
| 20----- | | | | | | | | | |
| 21----- | | | | | | | | | |
| 22----- | | | | | | | | | |
| 23----- | | | | | | | | | |
| 24----- | | | | | | | | | |
| 25----- | | | | | | | | | |
| 26----- | | | | | | | | | |
| 27----- | | | | | | | | | |
| 28----- | | | | | | | | | |
| 29----- | | | | | | | | | |
| 30----- | | | | | | | | | |
| 31----- | | | | | | | | | |
| AVER-
AGES | 0.77 | 0.93 | 1.04 | 1.17 | 1.27 | 1.14 | 1.00 | 0.83 | 0.69 |

Langley is the unit used to denote one gram calorie per square centimeter. An explanation of the formula used in computing the air mass values for each station listed above appears

| Sun's zenith distance | | | | | | | | | |
|---|-------|-------|-------|-------|------|-------|-------|-------|-------|
| Date | A M | | | | * | P M | | | |
| | 78 7° | 75 7° | 70 7° | 60 0° | | 60 0° | 70 7° | 75 7° | 78 7° |
| ALBUQUERQUE, N. MEX. | | | | | | | | | |
| Air mass | | | | | | | | | |
| | 4.19 | 3.35 | 2.51 | 1.67 | * | 1.67 | 2.51 | 3.35 | 4.19 |
| OCT. | | | | | | | | | |
| 4----- | | | | | 1.27 | | | | |
| 5----- | 0.75 | 0.87 | 0.98 | 1.11 | 1.30 | | | | |
| 6----- | .75 | .86 | 1.01 | 1.11 | | 1.21 | 1.09 | .97 | 0.86 |
| 7----- | .86 | | 1.08 | 1.11 | 1.48 | | | | |
| 8----- | | | | 1.11 | 1.40 | 1.25 | 1.09 | .97 | .83 |
| 9----- | .96 | 1.06 | | | 1.43 | 1.31 | | | |
| 10----- | | | 1.11 | 1.31 | | | | | |
| 11----- | .97 | 1.10 | 1.19 | 1.33 | 1.44 | 1.31 | 1.14 | 1.05 | .92 |
| 12----- | .99 | 1.10 | 1.19 | 1.33 | 1.44 | 1.34 | 1.18 | 1.10 | 1.00 |
| 13----- | | | | | | 1.26 | 1.11 | .96 | .83 |
| 14----- | | | | | | | 1.10 | .91 | .75 |
| 15----- | | | | | | | 1.16 | .97 | .76 |
| 16----- | | | | | | | | | |
| 17----- | | | | | | | | | |
| 18----- | | | | 1.10 | 1.21 | 1.16 | 1.09 | .97 | .83 |
| 19----- | | | | 1.10 | 1.30 | | | | .76 |
| 20----- | | | | 1.18 | | | 1.11 | | .86 |
| 21----- | | | | | | | 1.04 | 1.00 | .89 |
| 22----- | | 1.07 | 1.18 | 1.31 | 1.37 | 1.31 | 1.14 | 1.05 | .92 |
| 23----- | .93 | 1.08 | 1.14 | 1.29 | 1.33 | 1.21 | 1.06 | 1.00 | .89 |
| 24----- | .93 | 1.08 | 1.14 | 1.29 | 1.33 | 1.21 | 1.06 | 1.00 | .89 |
| 25----- | .87 | .99 | 1.11 | | 1.30 | | | | |
| 26----- | .89 | 1.02 | 1.13 | 1.30 | 1.39 | 1.34 | 1.17 | .97 | .82 |
| 27----- | | | | | | | 1.14 | 1.04 | .93 |
| 28----- | 1.06 | 1.17 | 1.28 | 1.41 | 1.48 | 1.39 | 1.24 | 1.14 | 1.04 |
| 29----- | 1.03 | 1.14 | 1.20 | 1.35 | 1.45 | 1.38 | 1.24 | 1.15 | 1.03 |
| 30----- | 1.08 | 1.17 | 1.29 | 1.39 | 1.45 | 1.37 | | | .99 |
| 31----- | | | | | 1.46 | | 1.14 | 1.05 | |
| AVER-
AGES | 0.91 | 1.02 | 1.13 | 1.17 | 1.27 | 1.14 | 1.02 | 1.01 | 0.89 |
| MADISON, WISC. | | | | | | | | | |
| Air mass | | | | | | | | | |
| | 4.69 | 3.75 | 2.81 | 1.88 | * | 1.88 | 2.81 | 3.75 | 4.69 |
| OCT. | | | | | | | | | |
| 5----- | 0.93 | 0.62 | 0.76 | 0.97 | 1.06 | 0.83 | | | |
| 14----- | | | | | 1.33 | | | | |
| 15----- | | | | | 1.28 | 1.21 | | | |
| 16----- | .23 | .95 | | | 1.27 | 1.20 | .99 | 0.87 | 0.81 |
| 17----- | .79 | .89 | 1.03 | 1.21 | 1.28 | 1.20 | 1.00 | .87 | .81 |
| 18----- | .81 | .90 | 1.04 | 1.23 | 1.29 | 1.24 | 1.11 | 1.00 | .91 |
| AVER-
AGES | 0.59 | .84 | .94 | 1.13 | 1.25 | 1.14 | 1.05 | .91 | .81 |
| * VALUES CORRESPONDING TO TRUE SOLAR NOON | | | | | | | | | |
| H HAZE | | | | | | | | | |
| I INTENSE HAZE - INDETERMINABLE | | | | | | | | | |
| S SLIGHT HAZE - INDETERMINABLE | | | | | | | | | |
| HM MODERATE HAZE | | | | | | | | | |
| HS SLIGHT HAZE | | | | | | | | | |

* VALUES CORRESPONDING TO TRUE SOLAR NOON

H HAZE

I INTENSE HAZE - INDETERMINABLE

S SLIGHT HAZE - INDETERMINABLE

HM MODERATE HAZE

HS SLIGHT HAZE

in the February 1957 issue, Vol. 8, No. 2, page 63, of this publication.

SOLAR RADIATION TOTALS

OCTOBER 1970

Daily totals and monthly averages of solar radiation (direct and diffuse) received on a horizontal surface, tabulated in langleyes.

| Station | Day of month | | | | | | | | | | | | | | | | | | | | | | | | | | | | Avg. | | | | |
|----------------------|--------------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|-----|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|------|------|-----|-----|-----|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | | 29 | 30 | 31 | |
| ALBUQUERQUE N.M. | 376 | 495 | 167 | 462 | 483 | 520 | 467 | 524 | 508 | 358 | 522 | 511 | 478 | 485 | 113 | 149 | 225 | 465 | 431 | 445 | 436 | 161 | 460 | 443 | 391 | 445 | 294 | 455 | 444 | 431 | 395 | 404 | |
| AMES IOWA | --- | --- | --- | --- | --- | --- | 90 | 28 | 80 | --- | --- | --- | --- | --- | 293 | 338 | 332 | 319 | 160 | 170 | 216 | 278 | 31 | 30 | 28 | 176 | 85 | 294 | 454 | 444 | 431 | 395 | 404 |
| ANNETTE ALASKA | 125 | 213 | 29 | 271 | 297 | 136 | 39 | 106 | 224 | 186 | 258 | 147 | 146 | 229 | 56 | 137 | 27 | 35 | 193 | 116 | 15 | 21 | 77 | 146 | 163 | 14 | 28 | 23 | 76 | 96 | 119 | --- | |
| APALACHICOLA FLORIDA | 53 | 502 | 494 | 493 | 500 | 360 | 21 | 418 | 261 | 375 | 461 | 464 | 453 | 412 | 331 | 417 | 456 | 189 | 14 | 446 | 453 | 412 | 419 | 328 | 442 | 429 | 424 | 140 | 125 | 242 | 343 | 356 | |
| ARGONNE NAT. LAB. | 382 | 373 | 422 | 421 | 305 | 285 | 316 | 39 | 242 | 396 | 342 | 264 | 65 | 210 | 323 | 374 | 371 | 362 | 260 | 48 | 159 | 203 | 129 | 284 | 287 | 211 | 99 | 33 | 305 | 150 | 220 | 254 | |
| ASTORIA OREGON | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | |
| ATLANTA GEORGIA | 491 | 349 | 470 | 529 | 495 | 397 | 143 | 145 | 297 | 201 | 377 | 171 | 269 | 176 | 312 | 308 | 430 | 395 | 136 | 401 | 337 | 294 | 362 | 33 | 13 | 15 | 7 | 15 | 8 | 13 | 43 | 41 | |
| BARROW ALASKA | 55 | 70 | 84 | 75 | 53 | 39 | 98 | 96 | 53 | 57 | 109 | 30 | 59 | 23 | 45 | 45 | 23 | 30 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | |
| BETHEL ALASKA | 288 | 277 | 241 | 184 | 31 | 152 | 101 | 74 | 114 | 81 | 135 | 37 | 124 | 88 | 121 | 87 | 135 | 164 | 105 | 39 | 111 | 74 | 138 | 47 | 73 | 71 | 101 | 86 | 117 | --- | --- | | |
| BISMARK N.DAK. | 436 | 430 | 450 | 414 | 396 | 97 | 81 | 285 | 416 | 287 | 385 | 130 | 171 | 214 | 383 | 379 | 368 | 363 | 355 | 293 | 337 | 101 | 113 | 63 | 190 | 202 | 139 | 91 | 133 | 86 | 262 | 242 | |
| BLUE HILL MASS. | 230 | 235 | 208 | 255 | 276 | 364 | 297 | 265 | 311 | 33 | 103 | 264 | 174 | 148 | 138 | 6 | 148 | 309 | 331 | 311 | 154 | 67 | 6 | 124 | 88 | 19 | 61 | 280 | 276 | 252 | 233 | 193 | |
| BOISE IDAHO | 426 | 424 | 437 | 424 | 236 | 348 | 445 | 297 | 112 | 421 | 401 | 314 | 404 | 433 | 397 | 395 | 388 | 173 | 335 | 40 | 112 | 224 | 67 | 254 | 97 | 311 | 358 | 329 | 329 | 309 | 301 | 407 | |
| BROWNSVILLE TEXAS | 590 | 587 | 77 | 53 | 491 | 372 | 343 | 529 | 481 | 232 | 501 | 528 | 565 | 558 | 545 | 375 | 372 | 236 | 211 | 273 | 270 | 248 | 170 | 502 | 437 | 362 | 351 | 360 | 253 | 514 | 526 | 487 | |
| BURLINGTON VERMONT | 119 | 196 | 80 | 196 | 321 | 324 | 345 | 344 | 369 | 350 | 89 | 135 | 97 | 215 | 27 | 196 | 72 | 244 | 384 | 378 | 90 | 132 | 95 | 95 | 159 | 93 | 87 | 246 | 335 | 300 | 243 | 205 | |
| CAPE HATTERAS N.C. | 455 | 347 | 486 | 471 | 483 | 459 | 390 | 457 | 239 | 376 | 377 | 379 | 423 | 400 | 165 | 74 | 461 | 449 | 436 | 170 | 52 | 120 | 240 | 288 | 207 | 95 | 354 | 347 | 232 | 72 | 33 | 310 | |
| CARIBOU MAINE | 297 | 294 | 38 | 231 | 283 | 394 | 331 | 286 | 335 | 309 | 135 | 172 | 343 | 35 | 30 | 56 | 58 | 303 | 329 | 335 | 194 | 161 | 46 | 69 | 85 | 139 | 293 | 289 | 297 | 296 | 213 | 238 | |
| CHARLESTON S.C. | 512 | 343 | 502 | 534 | 524 | 421 | 356 | 263 | 232 | 395 | 437 | 434 | 381 | 304 | 378 | 136 | 509 | 437 | 268 | 67 | 370 | 417 | 445 | 402 | 236 | 191 | 252 | 199 | 195 | 101 | 241 | 340 | |
| CLEVELAND OHIO | 233 | 312 | 301 | 382 | 364 | 360 | 243 | 300 | 317 | 249 | 137 | 66 | 123 | 81 | 96 | 103 | 372 | 375 | 330 | 89 | 45 | 258 | 272 | 281 | 319 | 103 | 226 | 200 | 48 | 35 | 278 | 232 | |
| COLUMBIA MISSOURI | 388 | 451 | 477 | 442 | 351 | 140 | 126 | 124 | 166 | 417 | 382 | 199 | 59 | 338 | 419 | 431 | 313 | 257 | 258 | 264 | 367 | 64 | 98 | 221 | 340 | 158 | 93 | 370 | 370 | 271 | 214 | 276 | |
| DODGE CITY KANSAS | 498 | 473 | 474 | 418 | 403 | 462 | 127 | 54 | 501 | 457 | 171 | 449 | 448 | 80 | 270 | 212 | 89 | 53 | 109 | 346 | 304 | 213 | 251 | 383 | 354 | 17 | 103 | 335 | 253 | 294 | 272 | 286 | |
| E. LANSING MICHIGAN | 435 | 329 | 166 | 312 | 381 | 352 | 189 | 184 | 118 | 366 | 375 | 217 | 81 | 43 | 256 | 318 | 365 | 352 | 352 | 241 | 57 | 56 | 376 | 310 | 212 | 249 | 118 | 205 | 86 | 17 | 312 | 238 | |
| EL CENTRO CALIF. NPF | 459 | 425 | 244 | 405 | 439 | 466 | 440 | 479 | 470 | 454 | 454 | 440 | 445 | 434 | 424 | 435 | 417 | 345 | 420 | 416 | 385 | 363 | 349 | 349 | 406 | 429 | 411 | 406 | 371 | 381 | 411 | 411 | |
| EL PASO TEXAS | 311* | 323* | 323* | 365* | 296* | 501* | 503* | 533* | 511* | 476* | 509* | 495* | 445* | 474* | 63 | 88* | 357* | 337* | 416* | 455* | 379 | 454 | 445 | 441 | 444 | 456 | 443 | 433 | 383 | 413* | --- | --- | |
| ELY NEVADA | 483 | 482 | 450 | 335 | 369 | 235 | 460 | 458 | 219 | 392 | 441 | 402 | 430 | 445 | 439 | 452 | 428 | 305 | 373 | 232 | 249 | 341 | 205 | 298 | 373 | 284 | 414 | 377 | 362 | 320 | 229 | 363 | |
| EPPLEY NEWPORT R.I. | 140 | 260 | 332 | 331 | 333 | 356 | 363 | 222 | 322 | 44 | 247 | 334 | 317 | 244 | 299 | 38 | 219 | 350 | 376 | 364 | 181 | 127 | 9 | 168 | 117 | 144 | 163 | 325 | 314 | 287 | 267 | 246 | |
| FAIRBANKS ALASKA | 86 | 142 | 201 | 198 | 210 | 48 | 80 | 78 | 85 | 146 | 44 | 84 | 137 | 75 | 62 | 452 | 452 | 420 | 403 | 227 | 246 | 198 | 75 | 367 | 89 | 264 | 357 | 389 | 34 | 67 | 27 | 38 | |
| FAYETTEVILLE ARK. | 478 | 511 | 492 | 469 | 304 | 128 | 189 | 444 | 128 | 156 | 446 | 404 | 445 | 449 | 296 | 153 | 102 | 325 | 276 | 221 | 296 | 268 | 232 | 178 | 239 | 279 | 246 | 323 | 275 | 279 | 288 | 287 | |
| FORT WORTH TEXAS | 432 | 434 | 363 | 430 | 199 | 291 | 343 | 276 | 527 | 506 | 466 | 123 | 455 | 449 | 296 | 153 | 102 | 325 | 276 | 221 | 296 | 268 | 232 | 178 | 239 | 279 | 246 | 323 | 275 | 279 | 288 | 287 | |
| FRESNO CALIFORNIA | 456 | 459 | 438 | 411 | 422 | 484 | 478 | 457 | 452 | 438 | 433 | 416 | 413 | 404 | 409 | 406 | 397 | 139 | 382 | 204 | 236 | 244 | 228 | 410 | 385 | 220 | 450 | 433 | 430 | 406 | 388 | | |
| GAINESVILLE FLORIDA | 526 | 525 | 473 | 514 | 491 | 398 | 249 | 391 | 473 | 484 | 454 | 392 | 402 | 404 | 314 | 374 | 436 | 436 | 373 | 207 | 382 | 294 | 412 | 357 | 385 | 417 | 393 | 374 | 282 | 294 | 256 | 332 | |
| GENEVA NEW YORK | 195 | 255 | 242 | 236 | 339 | 265 | 286 | 222 | 244 | 81 | 34 | 83 | 58 | 131 | 32 | 166 | 312 | 288 | 317 | 229 | 53 | 85 | 52 | 159 | 181 | 181 | 186 | 268 | 145 | 41 | 36 | 174 | |
| GLASGOW MONTANA | 381 | 333 | 375 | 355 | 289 | 88 | 207 | 209 | 259 | 150 | 320 | 158 | 233 | 331 | 336 | 341 | 325 | 276 | 221 | 296 | 268 | 232 | 178 | 239 | 279 | 246 | 323 | 275 | 279 | 288 | 287 | 277 | |
| GREAT FALLS MONTANA | 405 | 404 | 369 | 360 | 134 | 177 | 368 | 327 | 162 | 349 | 212 | 175 | 196 | 401 | 378 | 380 | 368 | 205 | 344 | 305 | 32 | 236 | 228 | 410 | 388 | 386 | 406 | 366 | 329 | 380 | 344 | 344 | |
| GREENSBORO N.C. | 397 | 302 | 332 | 418 | 385 | 326 | 245 | 169 | 213 | 216 | 300 | 320 | 320 | 320 | 320 | 320 | 320 | 320 | 320 | 320 | 320 | 320 | 320 | 320 | 320 | 320 | 320 | 320 | 320 | 320 | 320 | 320 | |
| INDIANAPOLIS INDIANA | 442 | 451 | 451 | 456 | 469 | 347 | 267 | 103 | 43 | 387 | 246 | 62 | 88 | 159 | 264 | 384 | 380 | 366 | 308 | 37 | 89 | 181 | 274 | 156 | 214 | 249 | 166 | 32 | 219 | 301 | 199 | 246 | |
| LAKE CHARLES LA. | 463 | 497 | 451 | 488 | 253 | 63 | 268 | 391 | 543 | 430 | 20 | 158 | 396 | 502 | 222 | 497 | 442 | 271 | 420 | 362 | 341 | 424 | 196 | 431 | 436 | 341 | --- | 132 | 467 | 449 | 443 | 360 | |
| LAKELAND FLORIDA | 524 | 454 | 425 | 506 | 508 | 348 | 317 | 375 | 460 | 380 | 440 | 463 | 400 | 435 | 411 | 356 | 396 | 398 | 244 | 310 | 174 | 366 | 413 | 370 | 361 | 396 | 453 | 329 | 416 | 171 | 417 | 388 | |
| LANDER WYOMING | 412 | 423 | 425 | 424 | 464 | 136 | 258 | 499 | 340 | 223 | 409 | 368 | 404 | 340 | 399 | 388 | 371 | 295 | 332 | 250 | 268 | 342 | 264 | 346 | 282 | 340 | 308 | 307 | 319 | 206 | 337 | | |
| LARAMIE WYOMING | 425 | 424 | 425 | 425 | 406 | 144 | 150 | 412 | 384 | 159 | 408 | 362 | 391 | 164 | 405 | 377 | 375 | 371 | 229 | 320 | | | | | | | | | | | | | |

SOLAR RADIATION TOTALS

Daily totals and monthly averages of solar radiation (direct and diffuse) received on a horizontal surface, tabulated in langleys.

OCTOBER 1970

| Station | Day of month | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Avg. | |
|-----------------------|--------------|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | | |
| PHOENIX ARIZONA | 464 | 288 | 421 | 397 | 456 | 456 | 444 | 486 | 478 | 327 | 473 | 458 | 411 | 442 | 428 | 420 | 434 | 430 | 340 | 403 | 403 | 403 | 325 | 410 | 376 | 352 | 411 | 423 | 422 | 385 | 381 | 381 | 410 |
| PORTLAND MAINE | 241 | 223 | 216 | 381 | 296 | 379 | 273 | 284 | 333 | 54 | 86 | 269 | 110 | 185 | 70 | 47 | 156 | 317 | 313 | 329 | 197 | 55 | 28 | 161 | 64 | 79 | 241 | 306 | 292 | 285 | 266 | 241 | 211 |
| PROSSER WASHINGTON | 358 | 346 | 357 | 361 | 397 | 132 | 316 | 103 | 187 | 309 | 319 | 344 | 355 | 356 | 348 | 338 | 295 | 136 | 165 | 117 | 82 | 239 | 241 | -- | 177 | 299 | 310 | 275 | 278 | 260 | 242 | 268 | 268 |
| RAPID CITY S.DAK. | 389 | 399 | 400 | 384 | 385 | 159 | 208 | 362 | 350 | 131 | 346 | 339 | 234 | 350 | 395 | 355 | 356 | 350 | 303 | 324 | 242 | 303 | 300 | 208 | 205 | 112 | 147 | 213 | 122 | 157 | 301 | 284 | |
| RENO NEVADA | 417 | 425 | 416 | 380 | 437 | 425 | 449 | 420 | 340 | 410 | 404 | 349 | 402 | 400 | 395 | 389 | 343 | 145 | 344 | 196 | 195 | 215 | 117 | 328 | 361 | 371 | 363 | 357 | 349 | 169 | 300 | 342 | |
| RICHLAND 25 NW WASH. | 368 | 375 | 364 | 345 | 317 | 178 | 275 | 104 | 174 | 264 | 301 | 347 | 342 | 343 | 344 | 344 | 313 | 135 | 191 | 137 | 113 | 255 | 260 | 338 | 239 | 269 | 312 | 294 | 297 | 275 | 262 | 272 | |
| RIVERSIDE CALIFORNIA | 520 | 358 | 296 | 471 | 321 | 267 | 485 | 548 | 523 | 582 | 402 | 435 | 328 | 377 | 380 | 439 | 392 | 406 | 298 | 361 | 317 | 378 | 208 | 311 | 432 | 467 | 444 | 473 | 435 | 395 | 410 | 598 | |
| RUSTON LOUISIANA | 449 | 393 | 348 | 446 | 397 | 167 | 224 | 137 | 402 | 457 | 62 | 102 | 197 | 271 | 130 | 294 | 287 | 174 | 76 | 331 | 342 | 363 | 80 | 235 | 385 | 231 | 41 | 68 | 397 | 385 | 380 | 266 | |
| SAINT CLOUD MINN. | 375 | 416 | 424 | 392 | 373 | 189 | 42 | 67 | 61 | 322* | 47 | 344 | 117 | 304 | 287 | 348 | 341 | 332 | 298 | 216 | 274 | 36 | 59 | 52 | 70 | 214 | 138 | 328 | 67 | 51 | 58 | 214* | |
| SALT LAKE CITY | 483 | 482 | 477 | 463 | 306 | 7 | 262 | 468 | 102 | 385 | 446 | 278 | 445 | 420 | 436 | 427 | 412 | 348 | 329 | 275 | 175 | 102 | 163 | 134 | 323 | 163 | 323 | 343 | 343 | 341 | 154 | 217 | |
| SAN ANTONIO TEXAS | 439 | 412 | 374 | 317 | 305 | 389 | 308 | 411 | 538 | 518 | 160 | 566 | 504 | 477 | 481 | 437 | 118 | 192 | 364 | 324 | 280 | 222 | 369 | 473 | 283 | 260 | 244 | 474 | 470 | 464 | 445 | 375 | |
| SANTA MARIA CALIF. | 474 | 458 | 422 | 417 | 183 | 541 | 495 | 482 | 478 | 428 | 423 | 243 | 225 | 330 | 268 | 352 | 293 | 320 | 423 | 286 | 193 | 184 | 143 | 382 | 420 | 416 | 409 | 416 | 391 | 229 | 388 | 358 | |
| SAULT STE MARIE MICH. | 315 | 257 | 170 | 237 | 339 | 240 | 103 | 222 | 173 | 144 | 291 | 218 | 179 | 83 | 173 | 251 | 305 | 325 | 320 | 232 | 35 | 170 | 112 | 58 | 266 | 97 | 31 | 48 | 14 | 252 | 90 | 182 | |
| SEATTLE TACOMA WASH. | 342 | 342 | 341 | 67 | 240 | 277 | 174 | 59 | 54 | 96 | 49 | 206 | 326 | 341 | 332 | 303 | 158 | 248 | 97 | 150 | 25 | 94 | 77 | 215 | 161 | 261 | 231 | 250 | 257 | 224 | 229 | 202 | |
| SPOKANE WASHINGTON | 352 | 321 | 329 | 316 | 92 | 94 | 132 | 119 | 165 | 247 | 162 | 309 | 273 | 296 | 240 | 272 | 289 | 138 | 200 | 61 | 165 | 195 | 206 | 225 | 190 | 296 | 279 | 239 | 267 | 261 | 242 | 245 | |
| STERLING VIRGINIA | 447 | 347 | 313 | 409 | 433 | 405 | 386 | 293 | 234 | 128 | 114 | 222 | 282 | 200 | 87 | 246 | 381 | 383 | 356 | 127 | 23 | 181 | -- | 229 | 122 | 262 | 112 | 102 | 80 | 41 | 35 | 233 | |
| TALLAHASSEE FLORIDA | 486 | 443 | 459 | 460 | 474 | 379 | 94 | 323 | 298 | 269 | 404 | 371 | 338 | 221 | 254 | 378 | 427 | 221 | 63 | 279 | 349 | 381 | 591 | 249 | 385 | 382 | 390 | 240 | 118 | 111 | 307 | 321 | |
| TAMPA FLORIDA | 519 | 423 | 435 | 459 | 498 | 303 | 318 | 394 | 493 | 401 | 414 | 443 | 383 | 409 | 419 | 342 | 396 | 353 | 247 | 310 | 246 | 325 | 377 | 421 | 409 | 378 | 415 | 319 | 397 | 176 | 372 | 379 | |
| TUCSON ARIZONA | 403 | 500 | 395 | 462 | 477 | 483 | 478 | 507 | 496 | 378 | 476 | 467 | 426 | 449 | 427 | 424 | 424 | 433 | 378 | 423 | 432 | 384 | 423 | 384 | 419 | 417 | 459 | 426 | 431 | 400 | 190 | 429 | |
| WAKE ISLAND PACIFIC | 597 | 557 | 473 | 518 | 565 | 578 | 585 | 585 | 569 | 563 | 535 | 558 | 539 | 504 | 561 | 546 | 532 | 334 | 335 | 548 | 520 | 462 | 188 | 368 | 140 | 335 | 367 | 455 | 249 | 312 | 477 | 467 | |

Note. --Langley is the unit used to denote one gram calorie per square centimeter.

Values with an asterisk are interpolated.

The solar radiation data in this table form the basis for the analyses in Charts VII, A, and B, of this publication. The analyses include adjustments required to bring station records to approximately the same level of calibration.

NET RADIATION

Net radiation in langbeys per day (8 a. m. to 8 p. m.) at Palmer, Alaska.

| Date | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | Avg. |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|
| Langbeys | 15 | 25 | 37 | 47 | 58 | 67 | 74 | 80 | 85 | 89 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 | 101 | 102 | 103 | 104 | 105 | 106 | 107 | 108 | 109 | 110 | 111 | 112 |

The measurement is made with a COSMO RUMK net exchange radiometer over a plot of sod. The value represents the total incoming minus the total outgoing radiation of all wave lengths.

These data are of an experimental nature and are published as received from the Bureau Exp. Station. The instrument with which they were measured has not been checked by the NOAA, National Weather Service.

SOLAR ULTRA-VIOLET RADIATION DATA

Daily totals and monthly average ($\sim 3900 \text{ \AA}$) at Ames, Iowa.

| Date | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | Avg. |
|----------|-------|-------|-------|-------|-------|------|------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Langbeys | 12.08 | 12.66 | 12.90 | 12.55 | 11.72 | 6.15 | 4.73 | 2.01 | 4.38 | 6.99 | 6.99 | 6.27 | 10.41 | 10.77 | 11.77 | 11.24 | 10.77 | 10.53 | 6.86 | 9.23 | 9.35 | 1.77 | 1.46 | 3.43 | 6.99 | 5.99 | 4.00 | 8.40 | 7.57 | 3.31 | 4.82 | 7.73 |

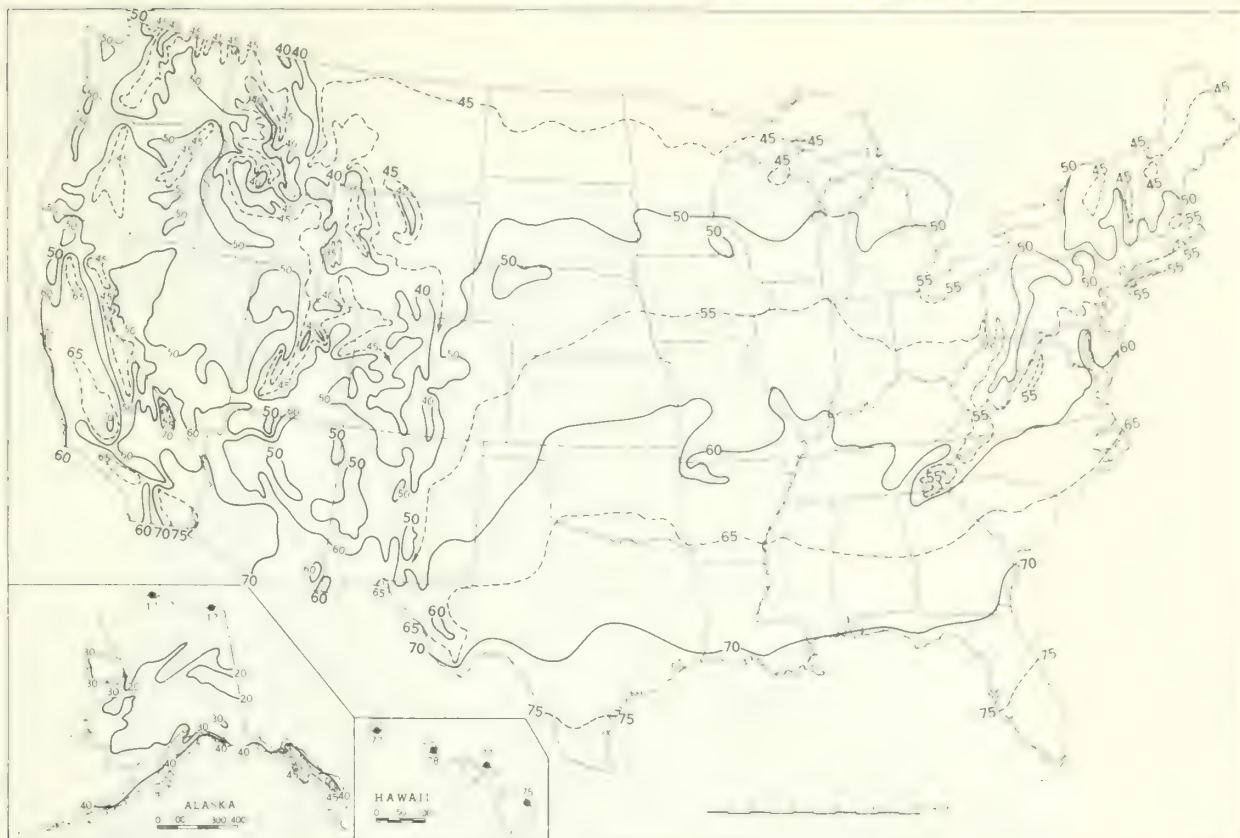
TOTAL OZONE DATA

These provisional ozone data are obtained from measurements made with a Dobson ozone spectrophotometer, and are applicable approximately to local apparent noon. The data are presented in the code $\alpha \beta \gamma \delta \epsilon$ defined in the August 1962 WHO circular entitled "PUBLICATION OF DATA FOR METEOROLOGICAL RESEARCH, WORLD OZONE DATA."

Units: Milli-atmo-cms.

| Station | Day of month | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Mean O ₃ | |
|----------------------------------|--------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------------------|-----|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | | |
| AMUNDSEN-SCOTT
BEDFORD, MASS. | 06372 | 00336 | --- | --- | --- | --- | --- | --- | 00300 | --- | --- | --- | 00301 | 05318 | 02993 | 05326 | 01335 | 20242 | 20244 | 20243 | --- | --- | --- | --- | 20264 | 20282 | 20289 | --- | --- | --- | 20285 | 20310 | 266 |
| BISMARCK, N. D. | 00280 | 00789 | 00304 | 00796 | 00291 | 05317 | 05340 | 06354 | 06354 | 06370 | 06318 | 06323 | 05373 | 05400 | 06341 | 06321 | 06330 | 06318 | 06334 | 06331 | 06332 | 06341 | 06329 | 05324 | 05357 | 06340 | 06360 | 06400 | 06363 | 06350 | 339 | | |
| BOULDER, COLO. | 00299 | 00786 | 00291 | 00302 | 00311 | 00299 | --- | 00357 | 00343 | 05393 | --- | 00303 | 05334 | 05338 | 06328 | 06319 | --- | --- | 04315 | 06309 | 06321 | 06346 | 06302 | --- | --- | 06332 | 06332 | 06325 | 06314 | 06331 | 06317 | --- | 321 |
| CARIBOU, MAINE | 05372 | 05343 | --- | 05359 | 05355 | 06308 | 00299 | 05314 | 06308 | 06300 | 05316 | 05338 | 07307 | --- | --- | --- | --- | 05355 | 06353 | 06333 | 06331 | 05320 | --- | 05337 | 05319 | 05320 | 06334 | 06324 | 06338 | 06329 | 06311 | --- | 329 |
| FAIRBANKS, ALASKA | 05391 | 00388 | 02354 | 02350 | --- | --- | --- | --- | --- | --- | --- | --- | 05364 | 04384 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 372 |
| GREEN BAY, WIS. | 00313 | 00320 | 04348 | 04315 | 00311 | 03311 | 00313 | 04334 | 04321 | 05327 | 06328 | 00315 | 07347 | 00325 | 00366 | 00336 | 00314 | 00318 | 00325 | --- | 05319 | 05325 | 05320 | 05311 | 05299 | 05319 | 05321 | --- | 00308 | 04331 | 05346 | 324 | |
| HUANCAYO, PERU | 00271 | 00275 | 00277 | 00277 | 00278 | 00277 | 00280 | 00276 | 00276 | 00271 | 00275 | 00270 | 00273 | 00276 | 00280 | 00280 | 00280 | 00291 | 00284 | 00276 | 00280 | 00281 | 00277 | 00277 | 00277 | 00284 | 00277 | 00274 | 00277 | 00266 | 00266 | 276 | |
| MAUNA LOA, HAWAII | --- | 00274 | --- | --- | 00275 | --- | 00270 | --- | 00268 | --- | --- | 00279 | --- | 00269 | --- | 06254 | --- | --- | 00265 | 00264 | 00267 | --- | 00272 | --- | --- | 06260 | --- | --- | 00263 | --- | 00265 | --- | 268 |
| NASHVILLE, TENN. | 00330 | 00325 | 00310 | 00323 | 00321 | 00311 | 04307 | --- | --- | 00307 | --- | --- | 06340 | 05318 | --- | 00302 | 00359 | 00286 | 05351 | --- | 06324 | 00318 | 00303 | 05365 | 00291 | 00280 | 00283 | --- | --- | 00293 | 00321 | 316 | |
| WALLOPS ISLAND, VA. | --- | 00325 | 00336 | 00303 | 00299 | 00296 | 00290 | 06274 | --- | 00281 | 00279 | --- | 00289 | 00270 | 00282 | 00299 | 00324 | 00326 | 00327 | 05300 | --- | 00298 | 05310 | 00299 | 04280 | --- | --- | 00268 | 05267 | 05278 | 05280 | 295 | |

The spectrophotometer measures the total amount of ozone in the atmosphere, i. e., the amount contained in a vertical column of air extending from ground level to the top of the atmosphere in the vicinity of the station. The amount of ozone in this column (coded $\alpha \beta \gamma \delta \epsilon$) is expressed in terms of a thickness of a layer it would occupy at standard temperature and pressure, e. g., 350 milli-atmo-cm. ozone implies an ozone layer 0.350 centimeter thick. The code $\alpha \beta \gamma \delta \epsilon$ designates the type of measurement made.



B. Temperature Departure from 30 - Year Mean (°F 1931-60), October 1970.

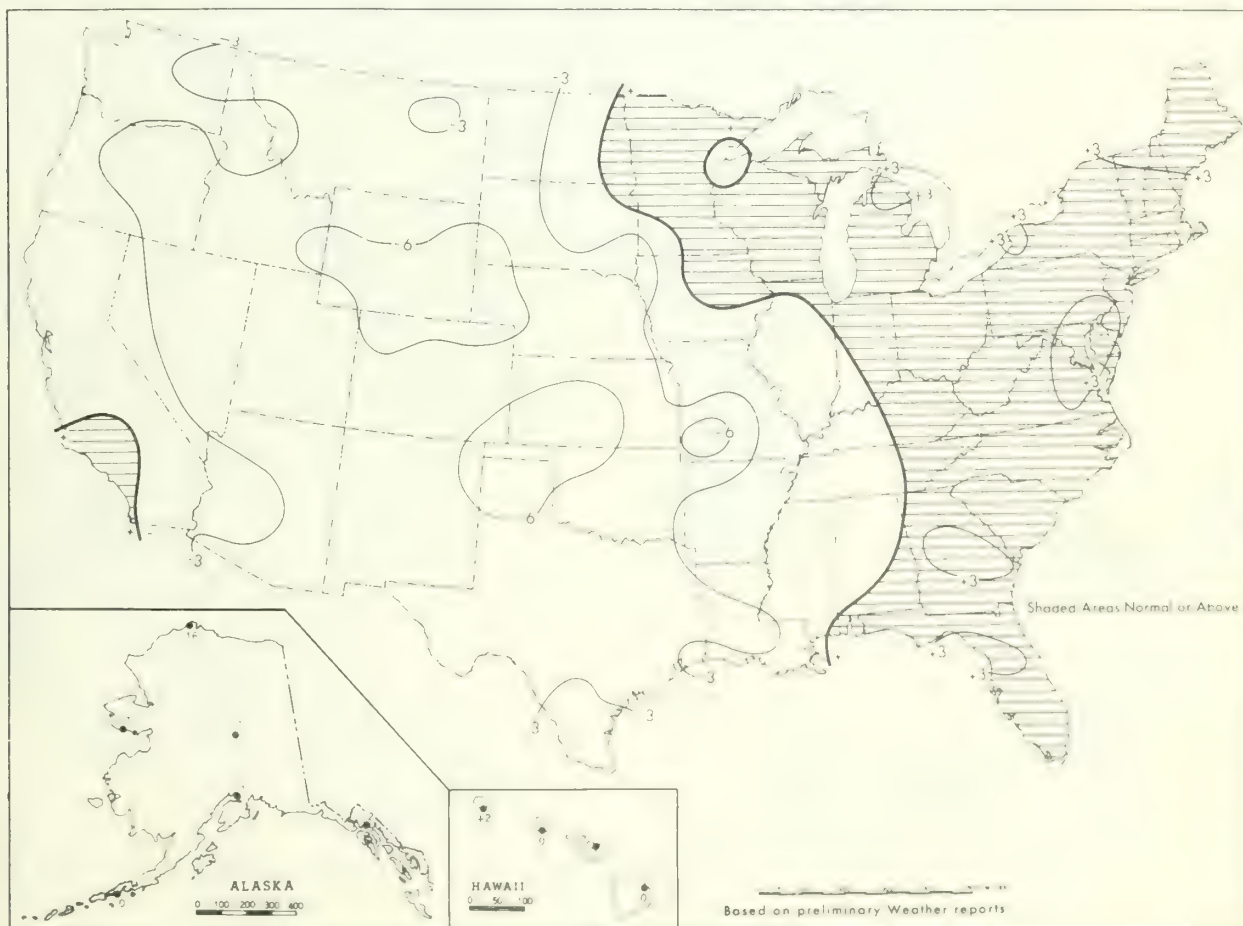


Chart II. Total Precipitation (Inches), October 1970.

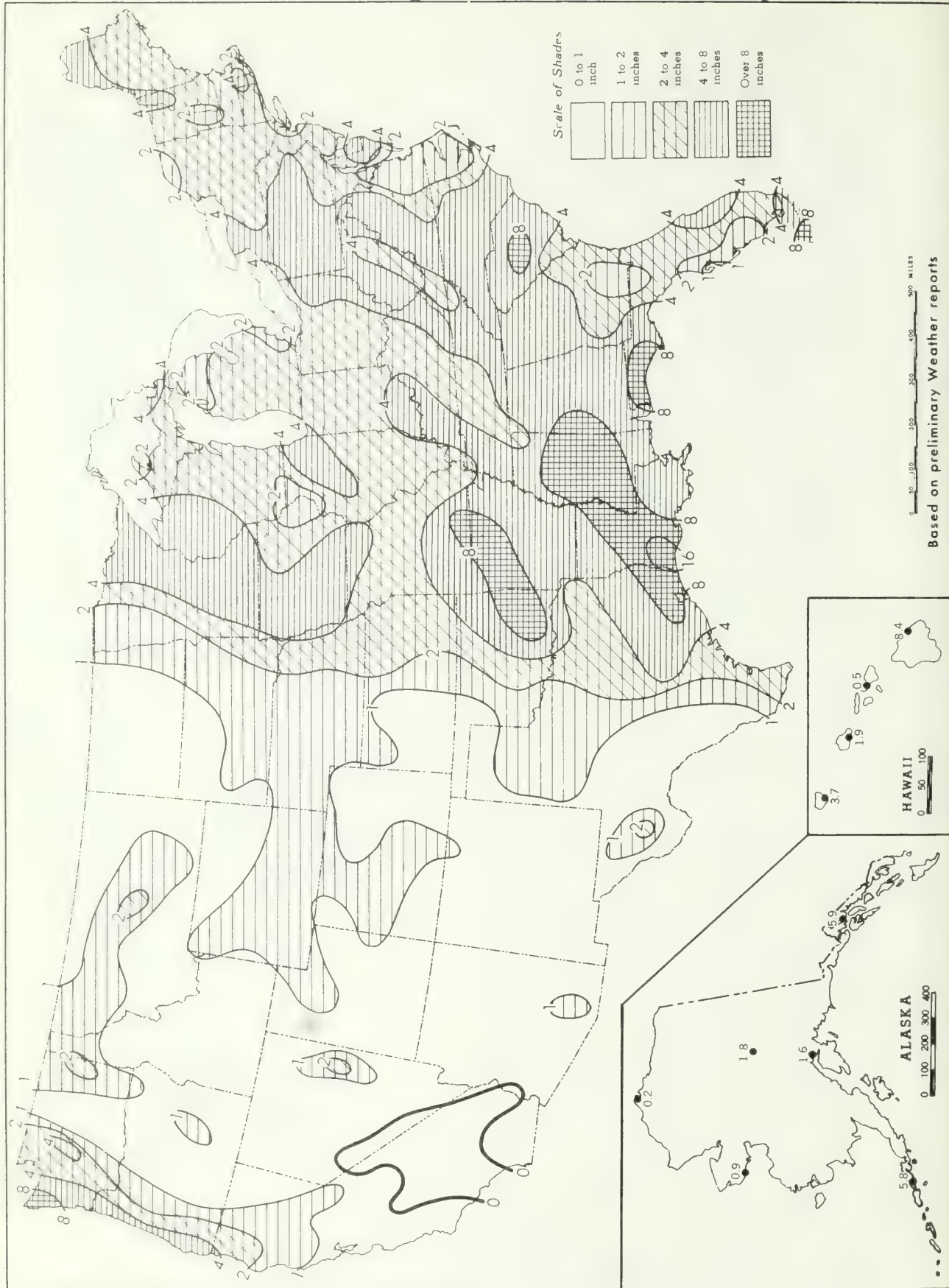
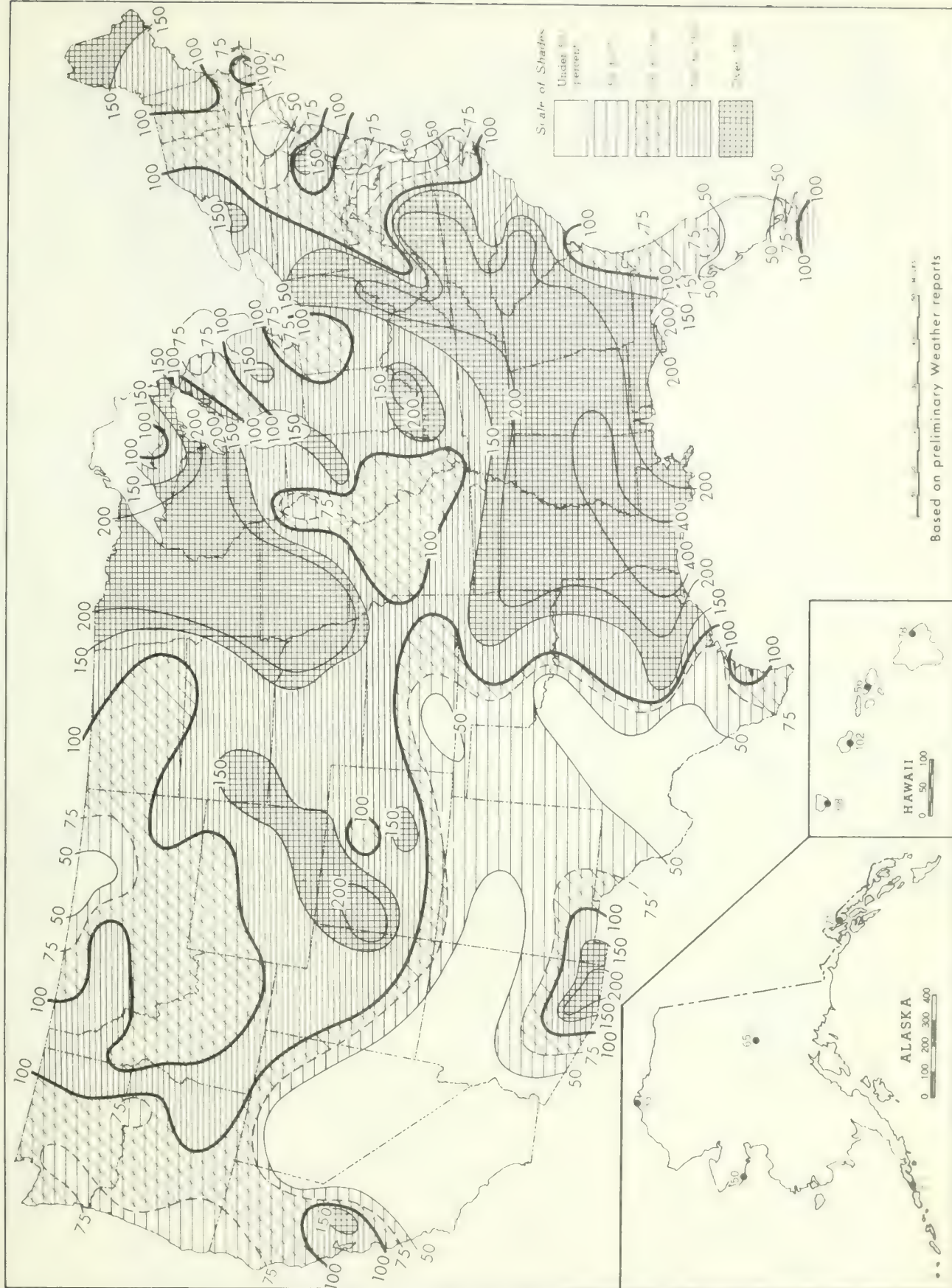
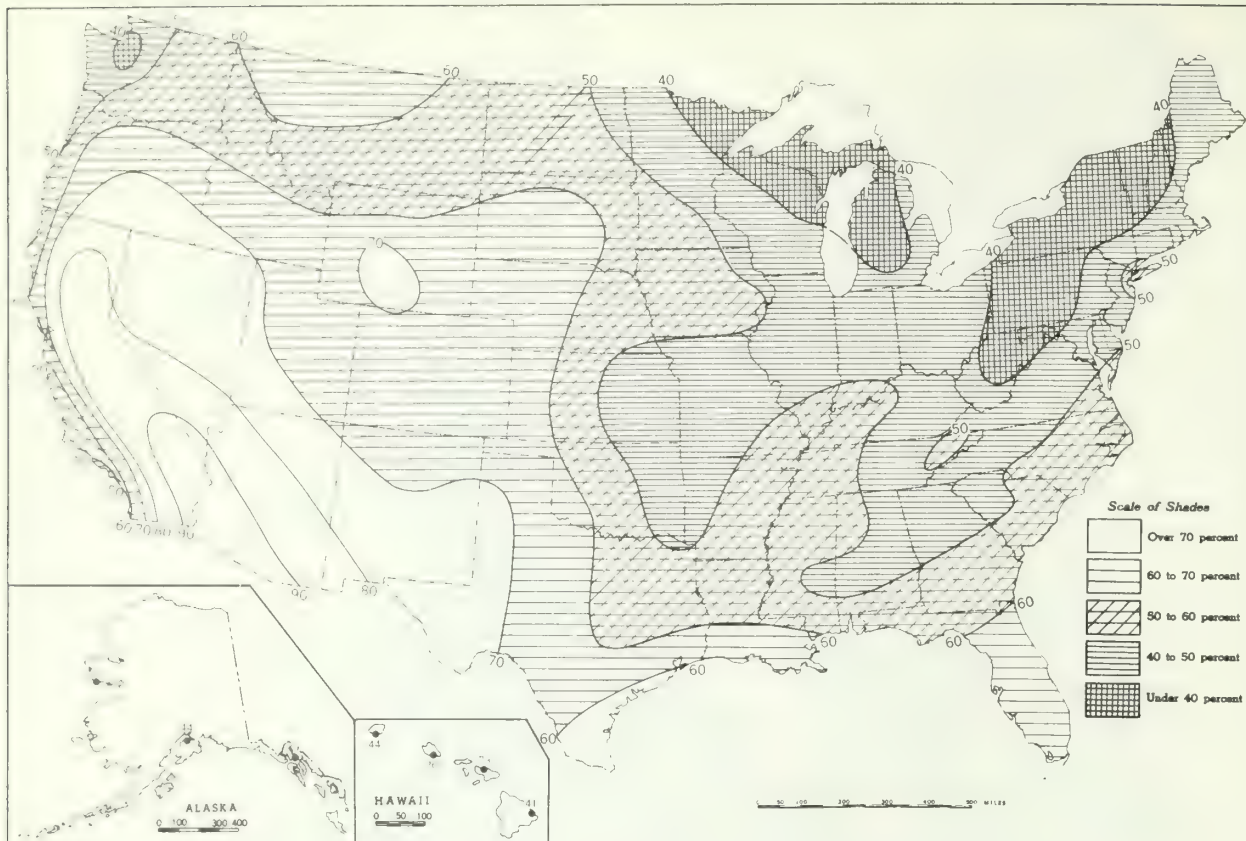
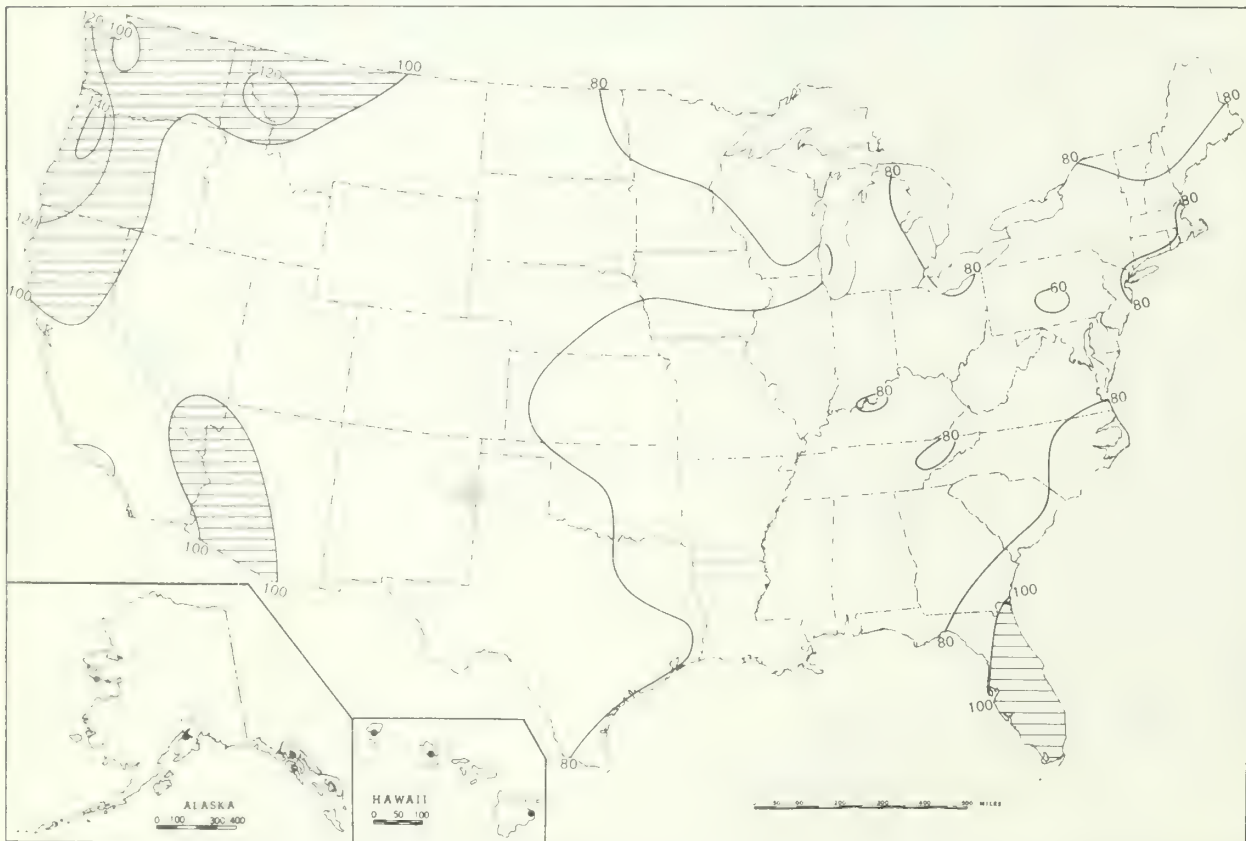


Chart III. Percentage of Normal Precipitation, October 1970.

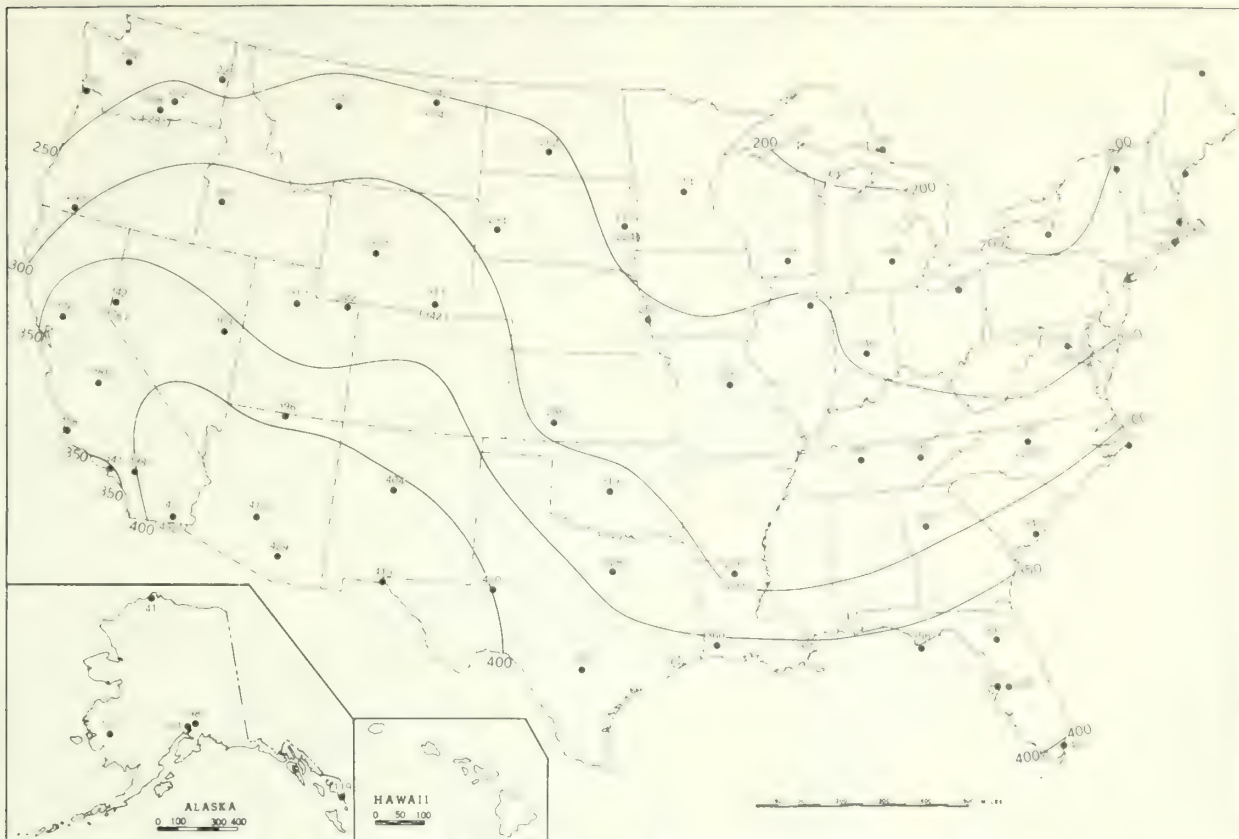




B. Percentage of Mean Monthly Sunshine, October 1970.



A. Computed from total number of hours of observed sunshine in relation to total number of possible hours of sunshine during month. B. Means are computed for stations having at least 10 years of record.

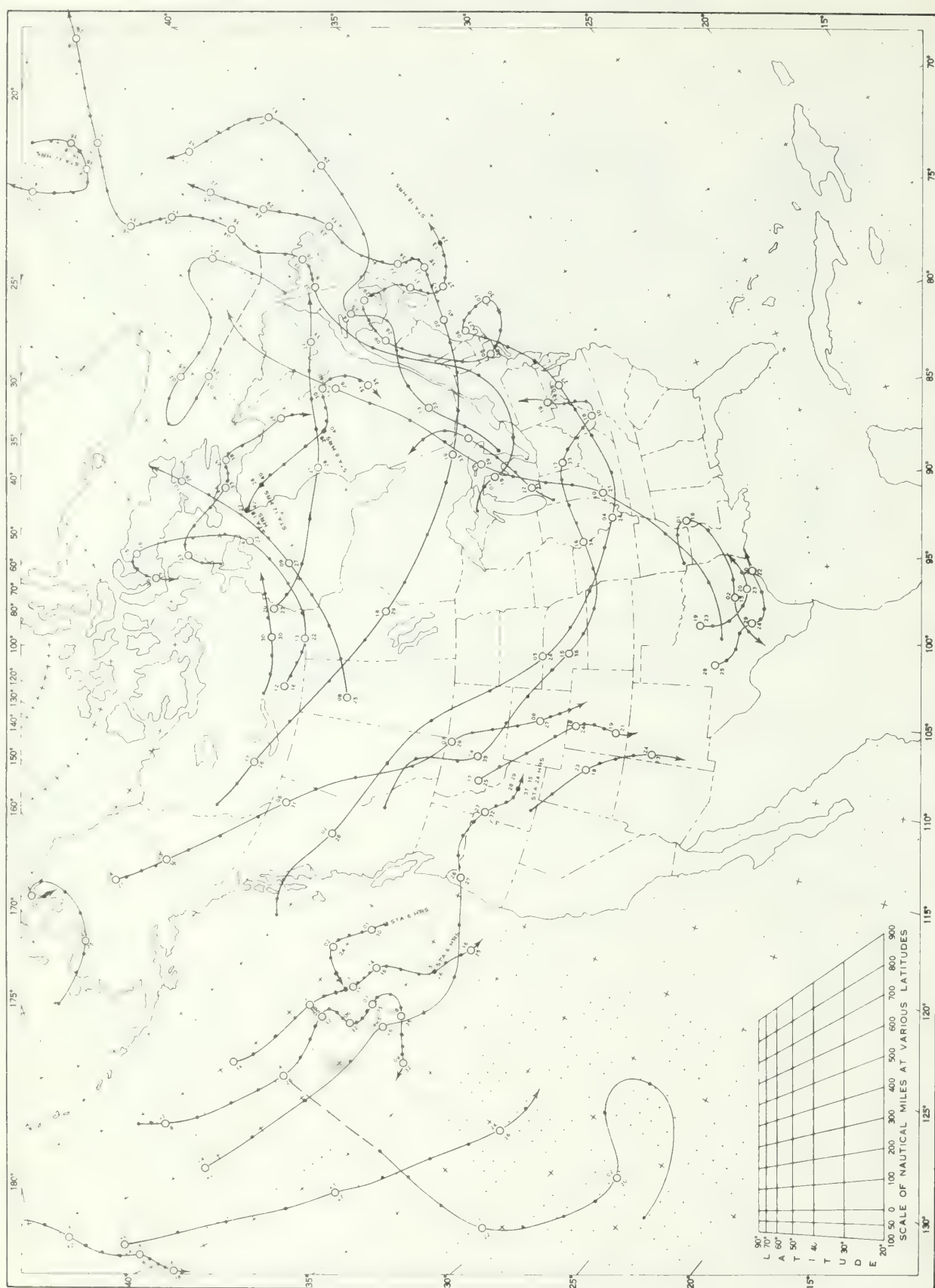


B. Percentage of Mean Daily Solar Radiation, October 1970.



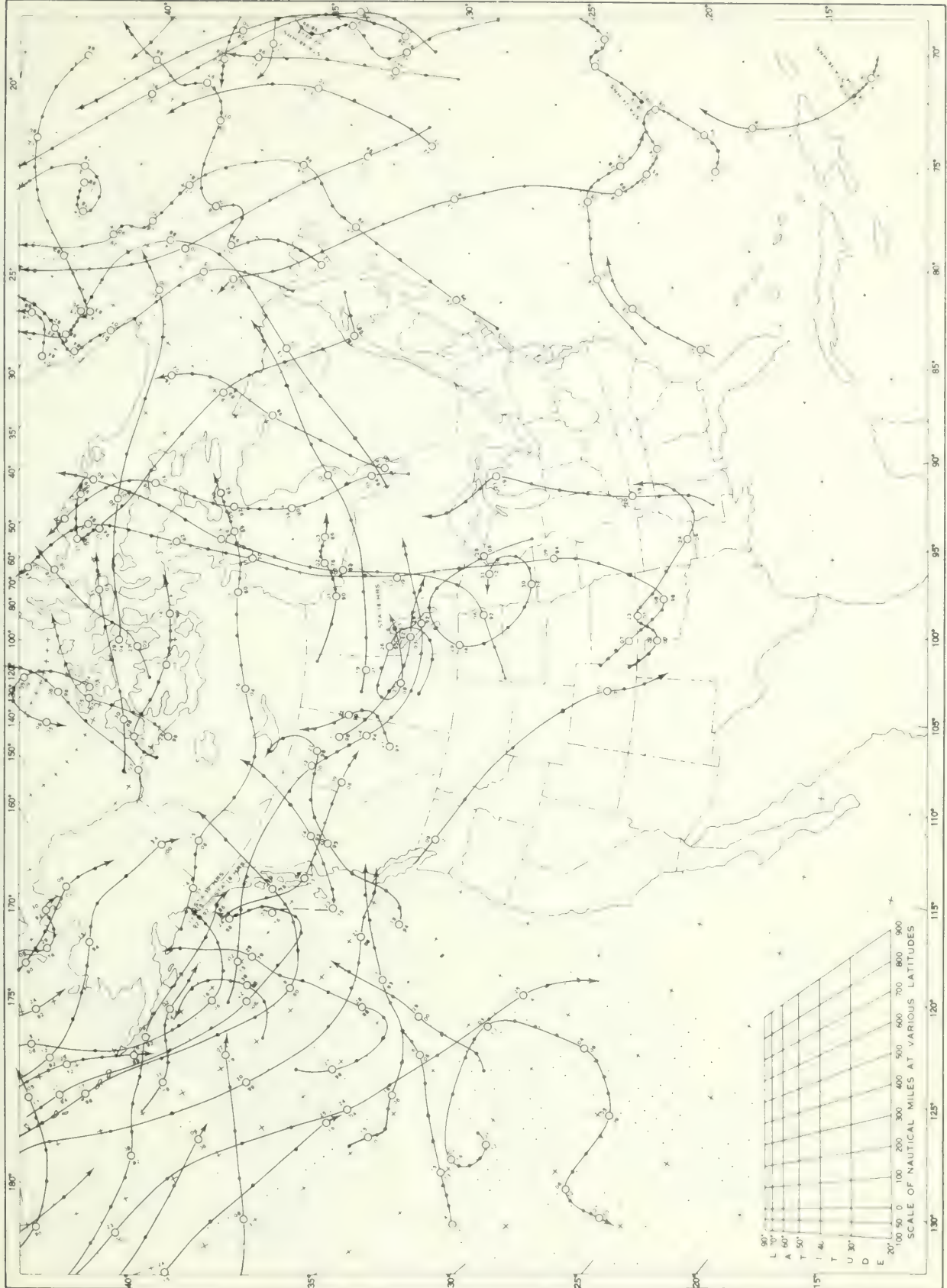
A. Mean daily solar radiation, direct + diffuse, received on a horizontal surface in langleys (1 langley = 1 gm. cal. cm.⁻²) and recorded in International Pyrheliometer Scale of 1956. B. Percentage of the mean based on at least 5 years of record during the period 1950-60, and corrected to the International Pyrheliometer Scale of 1956.

Chart VIII Tracks of Centers of Anticyclones at Sea Level, October 1970.



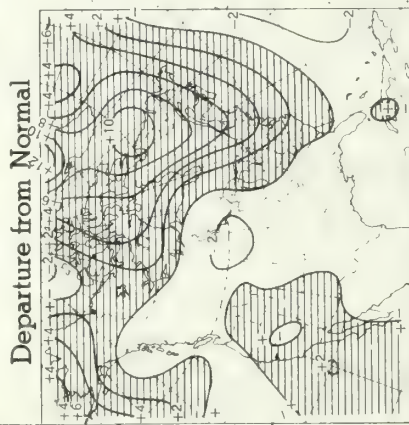
Circle indicates position of center at 7:00 a.m. E.S.T. Figure above circle indicates date, figure below, pressure to nearest millibar. Dots indicate intervening 6-hourly positions. Squares indicate position of stationary center for period shown. Dashed line in track indicates reformation at new position. Only those centers which could be identified for 24 hours or more are included.

Chart IX Tracks of Centers of Cyclones at Sea Level, October 1970.



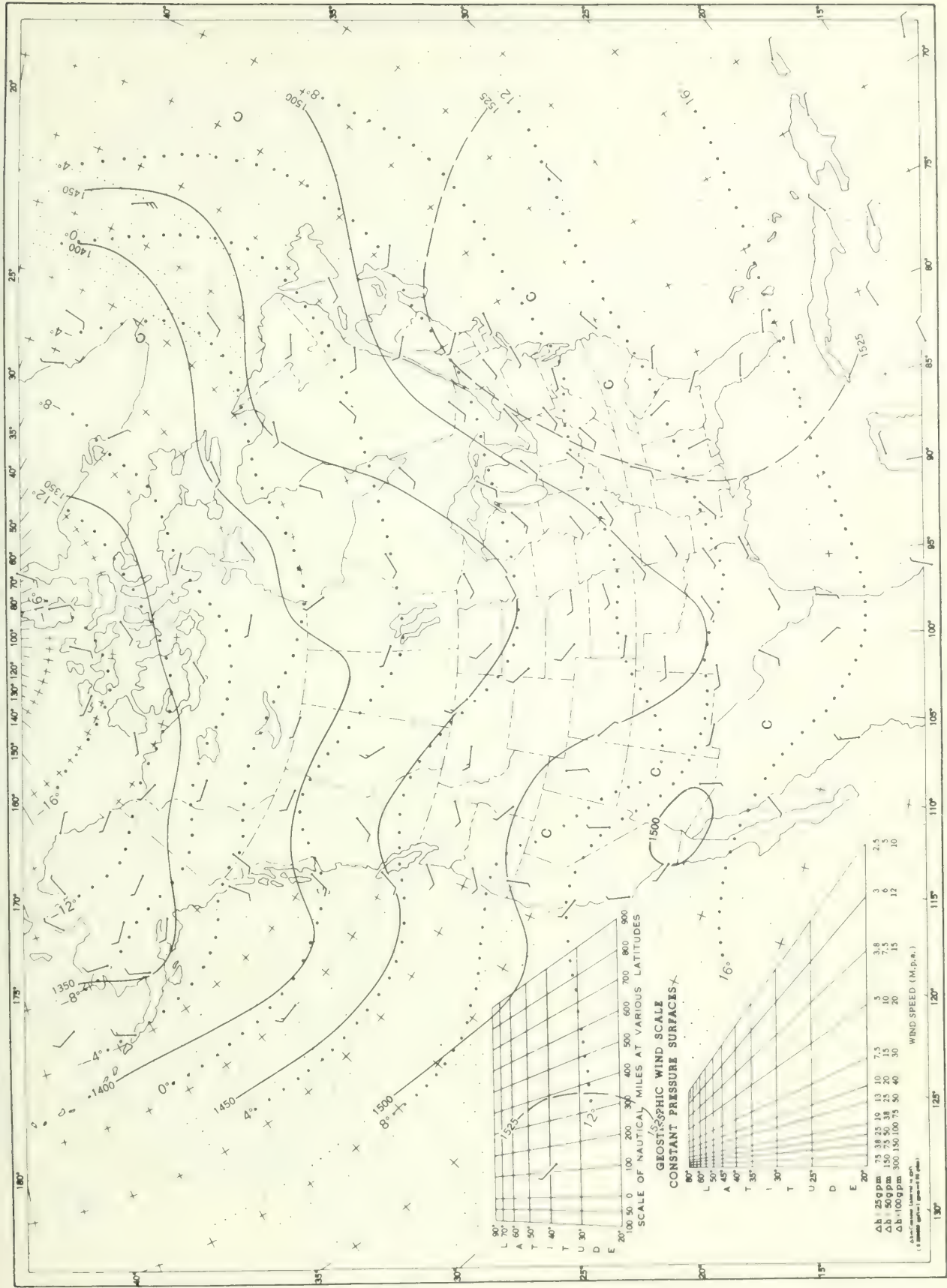
Circle indicates position of center at 7:00 a.m. E.S.T. Figure above circle indicates date, figure below, pressure to nearest millibar
 Dots indicate intervening 6-hourly positions. Squares indicate position of stationary center for period shown. Dashed line in track
 indicates reformation at new position. Only those centers which could be identified for 24 hours or more are included

Average Pressure (mb) from Normal, October 1970.



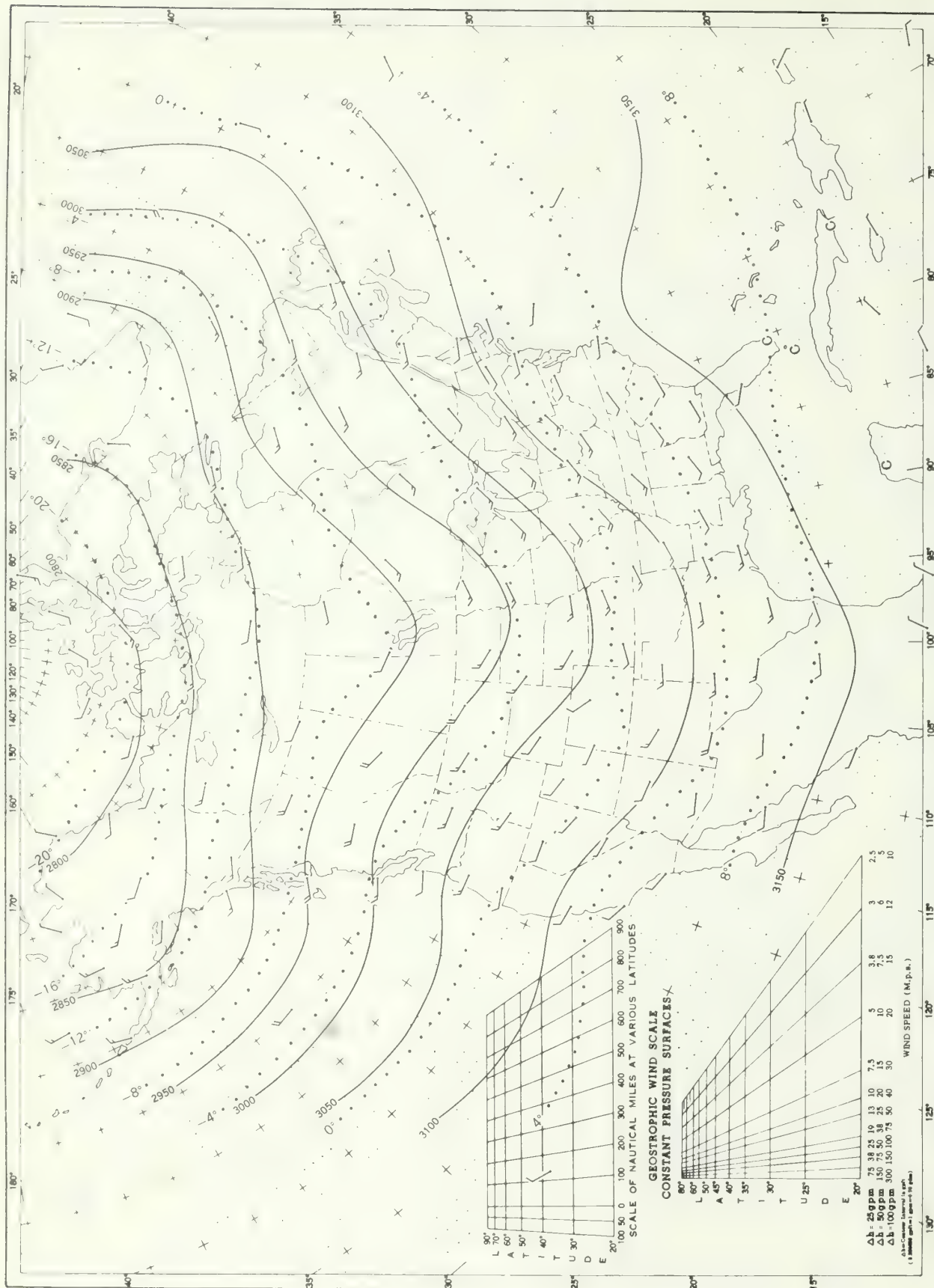
Constancy ratios (resultant speed \div average speed). Pressure normals are computed for stations having at least 10 years of record and for 10° intersections in a diamond grid over the oceans.

Chart XI. 850-mb Surface, 1200 GMT, October 1970. Average Height and Temperature, and Resultant Winds.



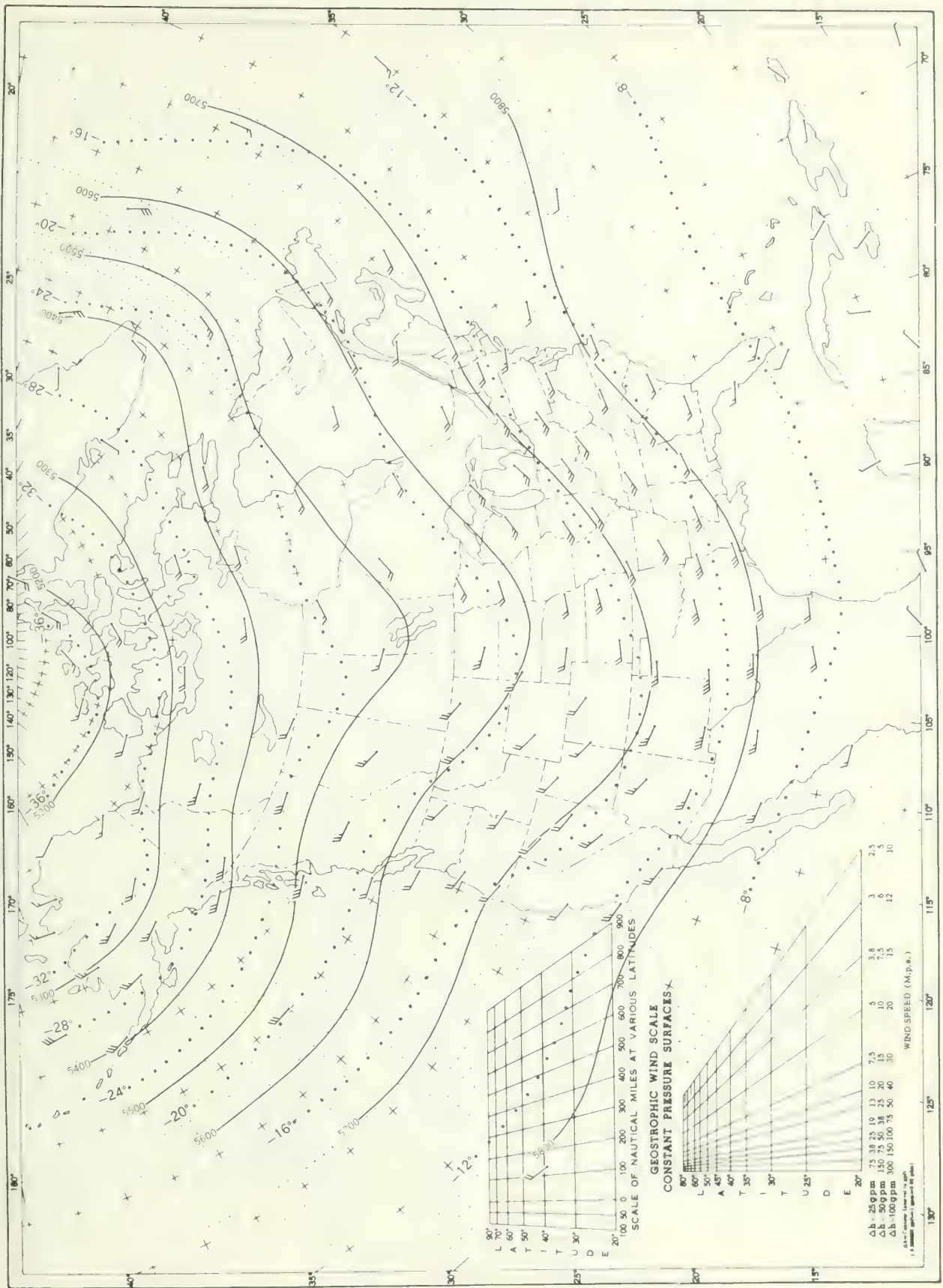
Height in geopotential meters (1 g.p.m. = 0.98 dynamic meters). Temperature in °C. Wind speed in meters per second; flag represents 25 mps, full feather 5 mps, and half feather 2.5 mps. All wind data are based on rawin observations.

Chart XII 700-mb Surface, 1200 GMT, October 1970. Average Height and Temperature, and Resultant Winds



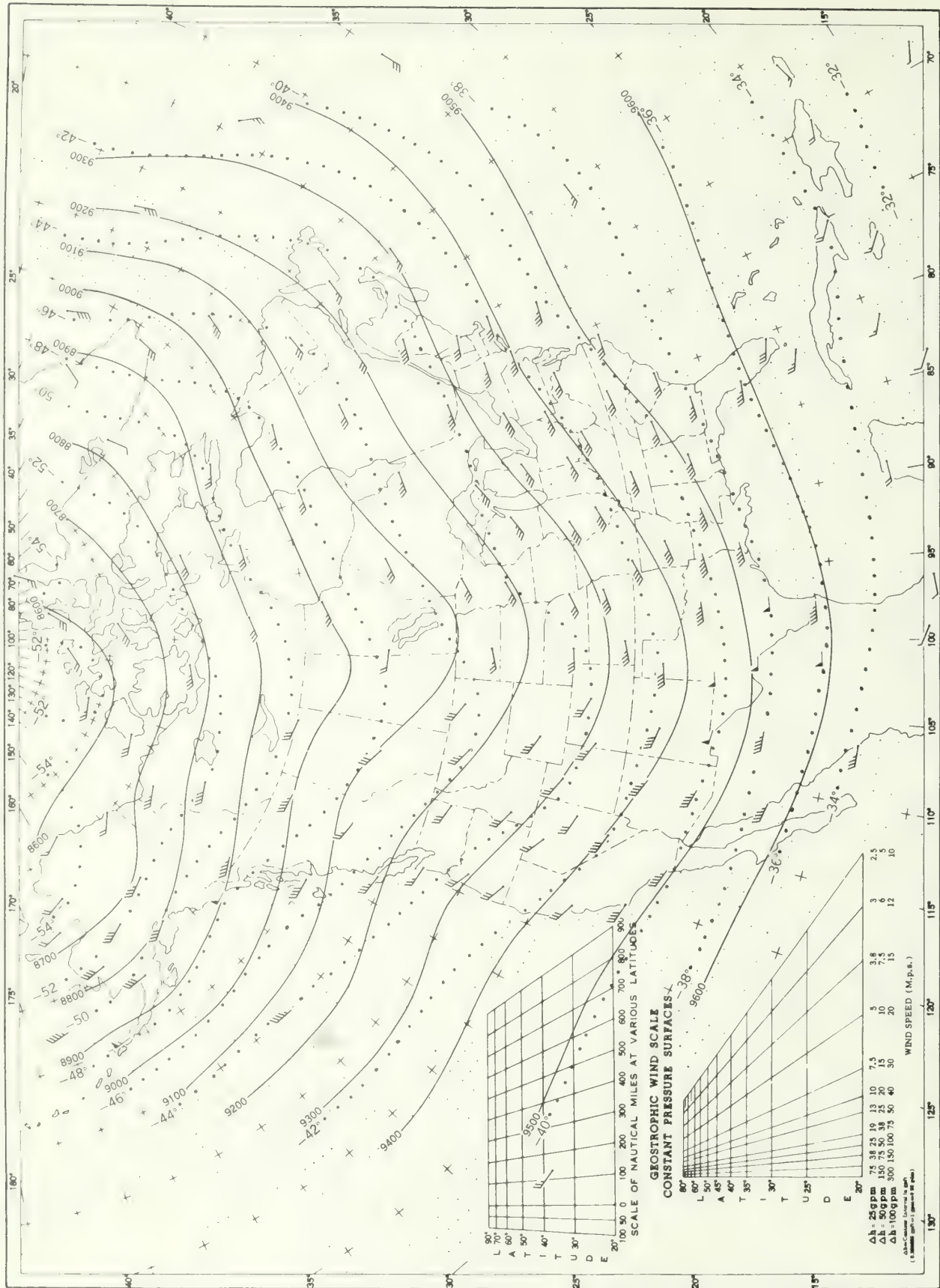
Height in geopotential meters (1 g.p.m. = 0.98 dynamic meters). Temperature in °C. Wind speed in meters per second; flag represents 25 mps, full feather 5 mps, and half feather 2.5 mps. All wind data are based on rawin observations.

Chart XIII. 500-mb. Surface, 1200 GMT, October 1970. Average Height and Temperature, and Resultant Winds



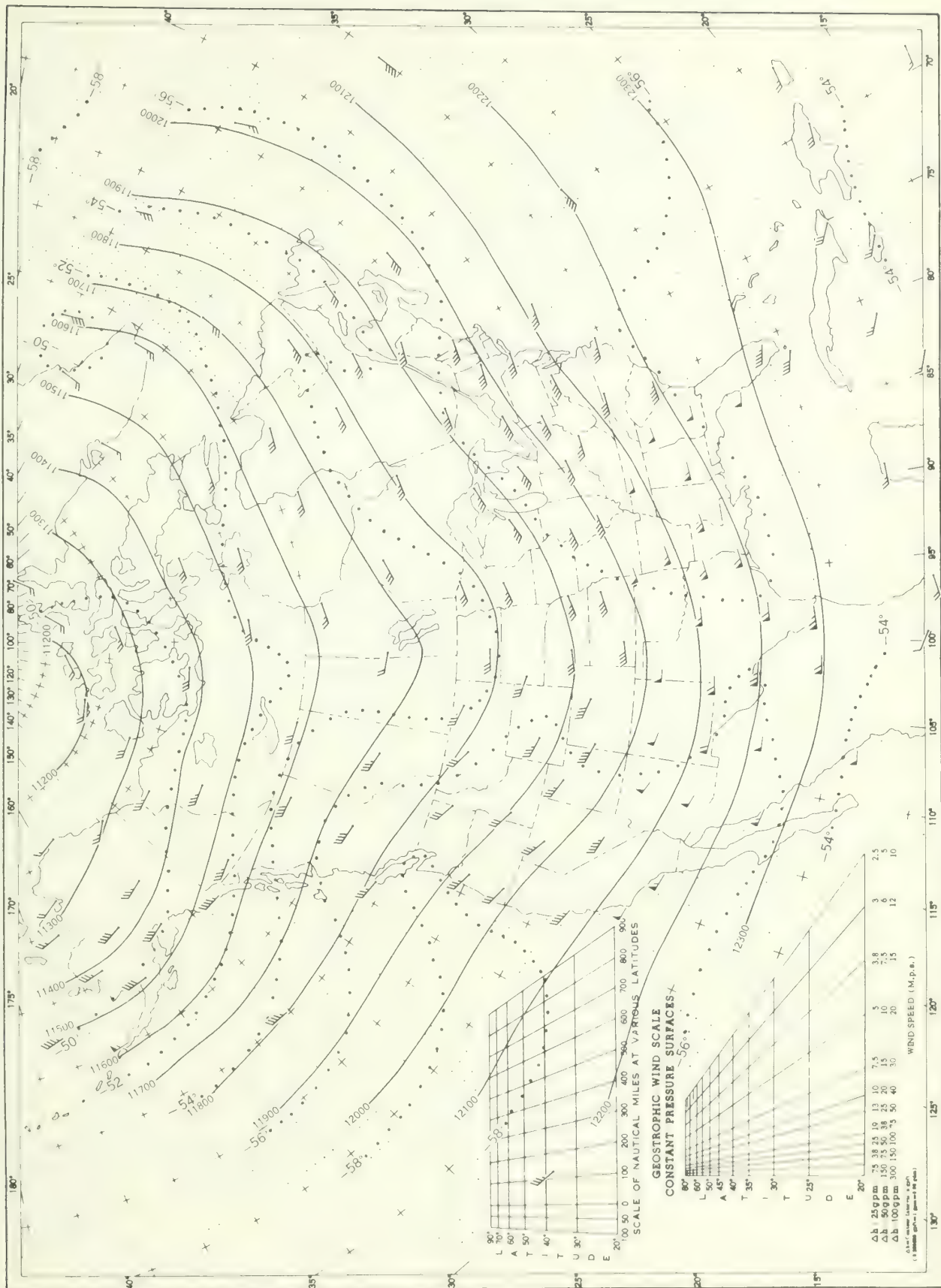
Height in geopotential meters (1 g.p.m. = 0.98 dynamic meters). Temperature in °C. Wind speed in meters per second; flag represents 25mps, full feather 5 mps, and half feather 2.5 mps. All wind data are based on rawin observations.

Chart XIV 300-mb. Surface, 1200 GMT, October 1970. Average Height and Temperature, and Resultant Winds



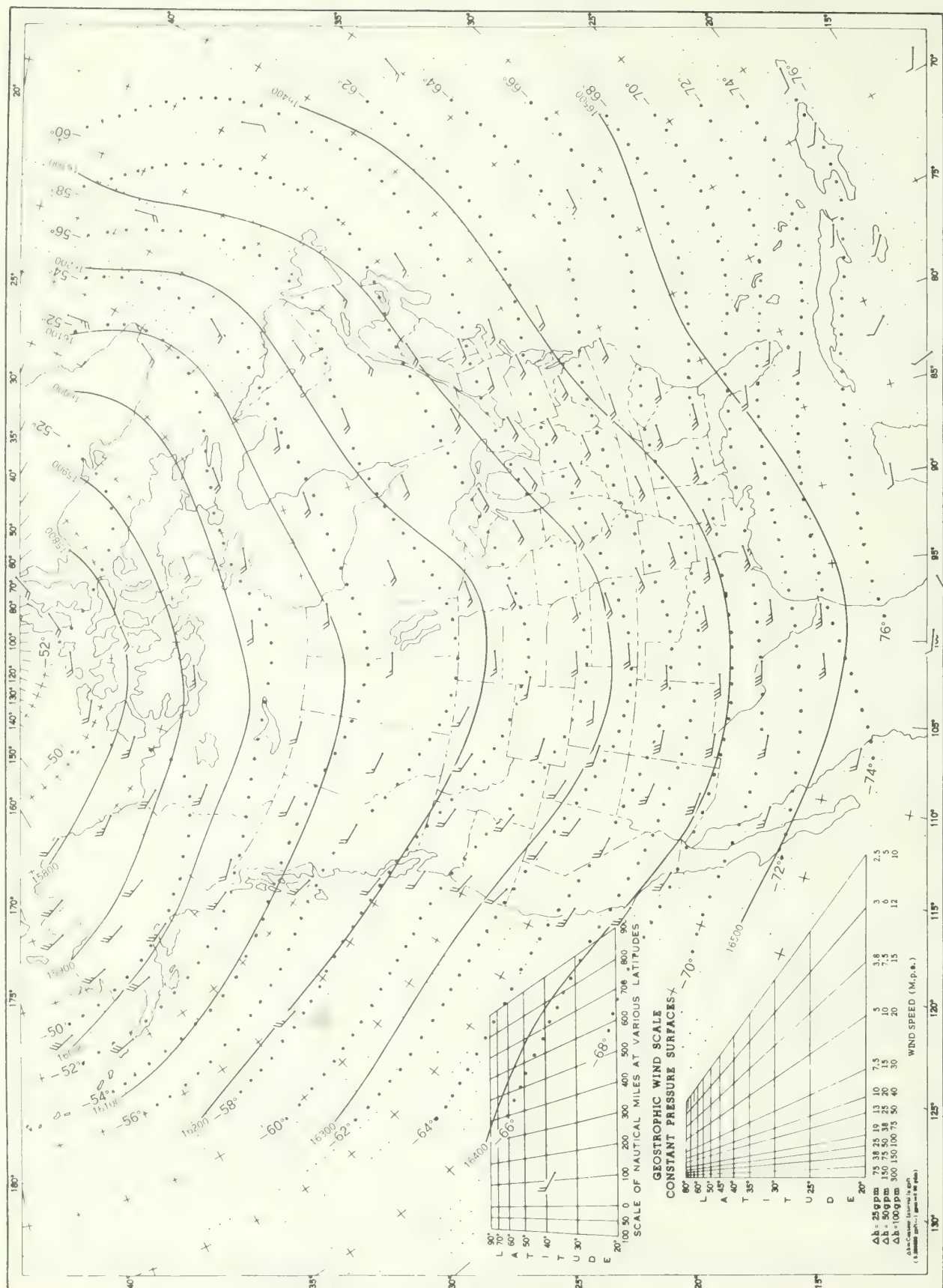
Height in geopotential meters (1 g. p. m. = 0.98 dynamic meters). Temperature in °C. Wind speed in meters per second; flag represents 25 mps, full feather 5 mps, and half feather 2.5 mps. All wind data are based on rawin observations.

Chart XV. 200-mb. Surface, 1200 GMT, October 1970. Average Height and Temperature, and Resultant Winds.

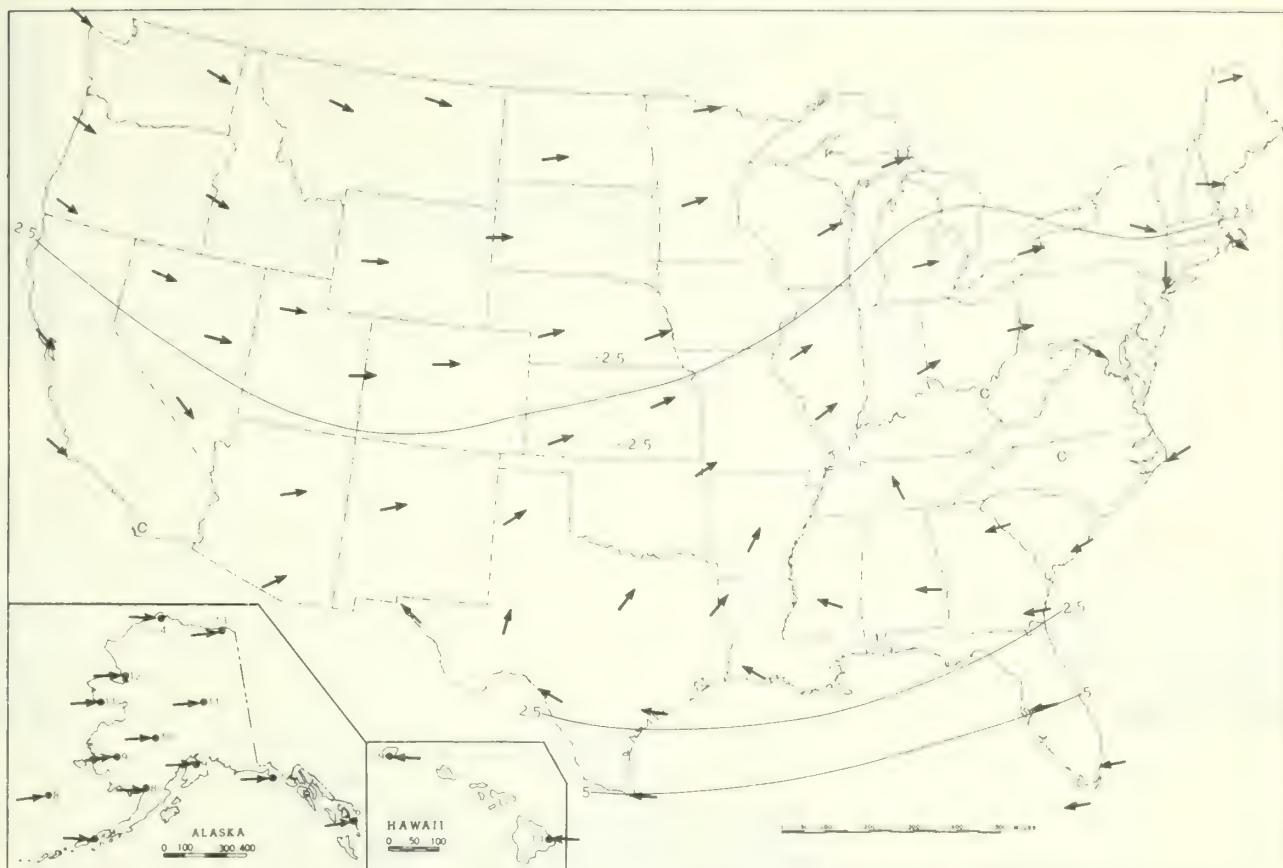


Height in geopotential meters (1 g.p.m. = 0.98 dynamic meters). Temperature in °C. Wind speed in meters per second; flag represents 25mps, full feather 5mps, and half feather 2.5mps. All wind data are based on rawin observations.

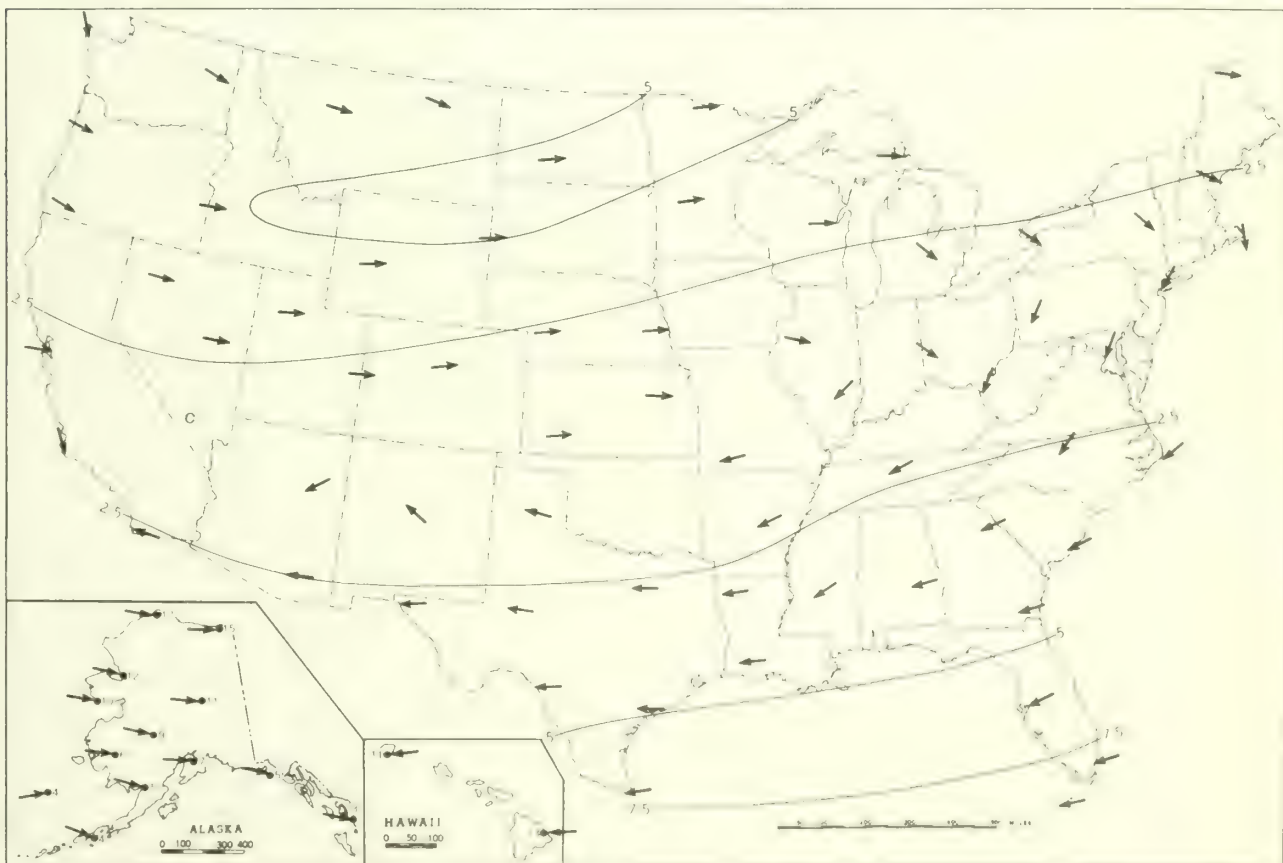
Chart XVI 100-mb. Surface, 1200 GMT, October 1970. Average Height and Temperature, and Resultant Winds



Height in geopotential meters (1 g.p.m. = 0.98 dynamic meters). Temperature in °C. Wind speed in meters per second; flag represents 25 mps, full feather 5 mps, and half feather 2.5 mps. All wind data are based on rawin observations.



B. 30-mb. Surface, 1200 GMT, October 1970. Resultant Winds.



Wind speed (isotachs) in meters per second. Arrows show resultant wind direction. All wind data are based on rawin observations.

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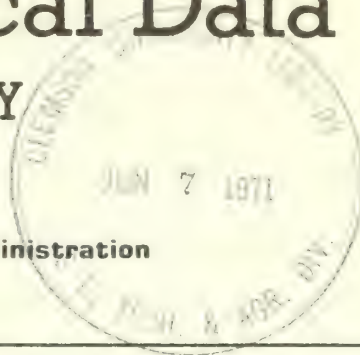




Climatological Data

NATIONAL SUMMARY

U.S. DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
ENVIRONMENTAL DATA SERVICE



NUMBER

1970

Volume 21

No. 11

Wilmington, N.C.

1971

C O N T E N T S

| SURFACE DATA | Page |
|---|------|
| General Summary of Weather Conditions----- | 555 |
| Observed Extremes of Temperature and Precipitation - By States- | 556 |
| Climatological Data - Stations - English Units----- | 557 |
| Climatological Data - Stations - Metric Units----- | 564 |
| Heating Degree Days----- | 571 |
| Cooling Degree Days----- | 572 |
| Storm Summary----- | 573 |
| General Summary of River and Flood Conditions----- | 574 |
| Flood Stage Data----- | 575 |
| UPPER AIR DATA | |
| Rawinsonde Data----- | 576 |
| SOLAR RADIATION DATA | |
| Solar Radiation Intensities----- | 583 |
| Daily Totals and Monthly Averages----- | 584 |
| Net Radiation----- | 586 |
| Solar Ultra-Violet Radiation----- | 586 |
| TOTAL OZONE DATA----- | 586 |
| CHARTS I-XVII----- | 587 |

CLIMATOLOGICAL DATA

NATIONAL SUMMARY

Volume 21 No. 11

NOVEMBER 1970

GENERAL SUMMARY OF WEATHER CONDITIONS

HIGHLIGHTS:

1. Above-normal temperatures were general from California to the western edge of the central and southern Great Plains while cool weather predominated from Oklahoma and Texas to the Carolinas, Georgia, and Florida.
2. Precipitation over most of the Great Basin ranged from 150% to over 400% of normal. A large area from southern Arizona to southern Georgia and Florida received less than 50% of normal rainfall.

TEMPERATURE.--Temperatures averaged above normal from the Pacific coast to the Continental Divide in the North and to the western edge of the Great Plains in the South; also, from the upper and middle Mississippi River Valley to the northern and middle Atlantic coast. Below-normal temperatures predominated over the northern and central Great Plains and from Texas to the southern Atlantic coast.

Temperatures averaged above-normal over the Southwest throughout the month. The Northwest was warmer than normal during the first half of November but much colder than normal during the last half. Below-normal temperatures prevailed over the southern Great Plains in the first half and above-normal temperatures were general in the last half.

The Northeast was warmer than normal until near the end of the month. The coldest weather occurred in northern Montana where Cut Bank registered more than 20° below zero on two mornings and averaged more than 6° colder than normal. Subfreezing temperatures occurred in all States except Hawaii in each of the last 2 weeks of November. A strip along the central Gulf coast averaged several degrees colder than normal.

Cold air from the north penetrated deep into the interior of the Nation early in November. Subfreezing weather covered most of western Texas on the morning of November 3. San Antonio registered 32° on the 6th. Birmingham, Ala., registered 31° on the 3d and 4th and 32° on the 6th. Afternoon temperatures in the Deep South were quite cool until a warming trend occurred early in the second week. Maximum temperatures in the 2d week of November ranged, in general, from the 50's near the Canadian Border to the 70's across the South. Subfreezing temperatures occurred in the central Appalachians on 1 or 2 days; also at Douglas, Ariz., southern New Mexico, and in extreme western Texas. A cooling trend about midmonth brought subfreezing temperatures to most of the Nation. The areas that escaped the freezing weather included the Pacific coast, most of California, southwestern Arizona, the Lower Rio Grande Valley, southern Florida and the Carolina Coast. Subzero temperatures occurred over parts of the northern Great Plains late in the 3d week.

In the last week of November, a warming trend occurred over the West. At Chadron, Nebr., the mercury climbed from 7° on the morning of the 23d to 69° the next afternoon. Imperial, Nebr., registered 77° on the afternoon of the 25th before a cold wave dropped the mercury to 27° the following morning. Such quick temperature changes are characteristic of the weather in the Great Plains in the late fall and winter, so

November 1970 was no exception.

A few new high temperature records were set in the West. Reno, Nev., registered 75° on the 24th, the warmest temperature of record for so late in the season. A number of eastern locations recorded extremely cold temperatures on the 24th and 25th. Among these were New Orleans, La., (24° on the 25th), Montgomery, Ala., (18° on the 24th), Tallahassee, Fla., (13° on the 25th). There were a number of others.

PRECIPITATION.--Most areas of the United States received less than normal rainfall in November. A large area from southern Arizona to the central and southern Great Plains received no rain or only light sprinkles which generally totaled less than 25% of normal.

Snow fell along the eastern slopes of the central Rocky Mountains and the northern Great Plains while rain or drizzle fell from the central Great Plains to the Upper Great Lakes and showers from the Upper Ohio River Valley to the Middle Atlantic States. About the middle of the 1st week, heavy snow fell in the middle Appalachians. Montebello and Hot Springs, both in Virginia, measured 13 and 9 inches, respectively, on the morning of November 5. Light snow mixed with cold rain fell in the central Rocky Mountains and over the western edge of the central Great Plains at the end of the 1st week of the month.

Cold fronts at midmonth and during the latter half caused alternating periods of fair and inclement weather from the Rocky Mountains to the Atlantic coast. Rains flooded lowlands in south-central Pennsylvania, northeastern West Virginia, and extreme northern Virginia on the night of November 12. On the afternoon and evening of the 17th, a storm center moving from central Oklahoma to Illinois, set off severe thunderstorms and a few tornadoes. Late in the evening, arctic air, streaming southward along the western edge of the Great Plains, caused intermittent snow accompanied by strong winds. Four to 10 inches of snow from this storm blanketed the eastern slopes of the northern Rocky Mountains and the northern Great Plains. By the 22d, severe wintry weather with strong winds and heavy snow or freezing rain covered a large area from the Great Lakes region to the southern Great Plains.

Much of the southern part of the Nation received no rain or only light sprinkles in the last week of November when the heaviest rains of the entire month fell along the Pacific coast. Portions of the northern California coast received weekly totals ranging from 4.00 to 8.00 inches or more. Also in the last week, cold air, blowing across the relatively warm waters of the Great Lakes, became loaded with moisture and dumped heavy snow on the south and east shores of the Lakes, especially in northeastern Ohio and the western portions of Pennsylvania and New York where snow depths ranged up to 24 inches. Some roads became completely blocked. About the middle of the last week of November, a new surge of arctic air swept down into the northern and central Great Plains. Winds at Minot, N. Dak., gusted to 58 m.p.h. and some localities in the northern border States received heavy snow. As the end of November approached, snow depths in the Cascades ranged from 30 to 50 inches at elevations

GENERAL SUMMARY OF WEATHER CONDITIONS-Continued

NOVEMBER 1970

of 3,000 to 5,000 feet.

A number of precipitation and snowfall records were set in November 1970. Mt. Shasta, Calif., with 41.9 inches of snowfall broke their 81-year November record. Sioux City, Iowa, received more rain, 13.91 inches, in

the 3-month period, September to November, than in any previous September to November period in their 82-year record. At the other extreme, Tucson, Ariz., received no rain in the entire month, the first November without rain in the last quarter century.

OBSERVED EXTREMES OF TEMPERATURE AND PRECIPITATION -- BY STATES

| STATE | Temperature | | | | | | Precipitation | | | |
|----------------|-----------------------------|---------------|------|-----------------------------|--------------|------|-------------------------|-----------------|-------------------------|--------------|
| | Monthly extremes | | | | | | Monthly extremes | | | |
| | Station | Highest
°F | Date | Station | Lowest
°F | Date | Station | Greatest
In. | Station | Least
In. |
| Alabama | Chatom 3 N | 84 | 30 | Florence | 5 | 24 | Brookwood | 3.80 | Coden | 0.88 |
| Alaska | Annette WSO | 67 | 1 | Allakaket | -53 | 30 | Little Port Walter | 18.51 | South Fork | .19 |
| Arizona | Bartlett Dam | 91 | 2 | Fort Valley | 1 | 15 | Jacob Lake | 2.75 | 40 Stations | .00 |
| Arkansas | 2 Stations | 80 | 29 | Gilbert | 5 | 24 | Magnolia 3 N | 4.62 | Blue Mountain Dam | 1.09 |
| California | 2 Stations | 96 | 24 | Bodie | -3 | 30 | Klamath | 28.70 | Calexico 2 NE | .00 |
| Colorado | 2 Stations | 77 | 25- | Fraser | -20 | 15 | Wolf Creek Pass 1 E | 5.35 | 4 Stations | T |
| Connecticut | Bulls Bridge Dam | 67 | 3 | 3 Stations | 11 | 26+ | Lake Konomoc | 7.66 | Cream Hill | 3.40 |
| Delaware | 2 Stations | 72 | 11- | Wilmington Porter Resvr | 15 | 24 | Wilmington Porter Resvr | 6.59 | Lewes 1 SW | 2.59 |
| Florida | La Belle | 94 | 14 | Steinhatchee McCain Tr | 12 | 25 | Crestview Radio WJSB | 2.50 | 5 Stations | .00 |
| Georgia | Waycross 4 NE | 85 | 21 | Blairsville Exp Sta | 5 | 25 | Atlanta Bolton | 5.95 | Savannah Beach | .09 |
| Hawaii | Keawakapu Beach 260.2, Maui | 91 | 10 | Mauna Loa Slope Obs, Hawaii | 31 | 15- | Paakea 350, Maui | 37.05 | Hualalai 72, Hawaii | .80 |
| Idaho | Swan Falls Power House | 71 | 24 | Dixie | -22 | 22 | Deadwood Dam | 8.62 | Chilly Barton Flat | .54 |
| Illinois | Rosiclare | 75 | 30 | Paw Paw | -2 | 24 | Chicago WSO | 3.57 | Virden 1 SSW | .56 |
| Indiana | Evansville | 73 | 30 | Muncie Ball State Univ | 3 | 24+ | Logansport Cicot St Br | 3.78 | Farmland 5 NNW | 1.42 |
| Iowa | Sidney | 69 | 6 | Fort Dodge | -3 | 23 | Mount Ayr | 3.42 | Chariton | .64 |
| Kansas | Ashland | 80 | 7 | 5 Stations | 5 | 24 | Lillis | 1.97 | 8 Stations | .00 |
| Kentucky | 2 Stations | 77 | 30- | Cumberland | 5 | 25 | Springfield | 3.67 | Beaver Dam | 1.25 |
| Louisiana | Bastrop | 83 | 30 | 6 Stations | 18 | 25+ | Marion | 4.44 | N O New Federal WSO | .30 |
| Maine | Houlton FAA AP | 70 | 1 | 2 Stations | 0 | 26 | Bingham Wyman Dam | 3.87 | Middle Dam | 1.51 |
| Maryland | Royal Oak | 74 | 1 | Bittinger 2 NW | 3 | 25 | La Plata 1 W | 6.53 | Oakland 1 SE | 2.00 |
| Massachusetts | Chester 2 | 68 | 3 | Chester 2 | 8 | 25 | Edgartown | 6.50 | Adams | 2.57 |
| Michigan | 2 Stations | 65 | 9 | Kenton U S Forest | -10 | 27 | Niles | 4.38 | Mackinaw City No 2 | 1.46 |
| Minnesota | 3 Stations | 59 | 10- | Roseau 1 E | -24 | 27 | Rosemount Agri Exp Sta | 5.05 | Bemidji Airport | .37 |
| Mississippi | 2 Stations | 81 | 30+ | Batesville 2 SW | 8 | 24 | Purvis | 3.88 | 2 Stations | .75 |
| Missouri | Dora | 76 | 8 | 2 Stations | 2 | 24 | Perryville Water Plant | 3.13 | Lees Summit Reed Wlr | .26 |
| Montana | Boyes | 67 | 9 | Gibson Dam | -35 | 22 | West Glacier | 4.74 | Gardiner | .08 |
| Nebraska | 4 Stations | 77 | 30+ | Harrison | -3 | 23 | Guide Rock | 2.67 | Ellsworth | T |
| Nevada | 2 Stations | 80 | 3+ | Gibbs Ranch | 2 | 14 | Mount Rose-Sky Tavern | 7.92 | Beatty | D .10 |
| New Hampshire | 2 Stations | 67 | 4+ | Mount Washington | -6 | 25 | Pinkham Notch | 7.01 | Lebanon FAA AP | 1.49 |
| New Jersey | Seabrook Farms | 71 | 11 | High Point Park | 11 | 26 | Charlotteburg | 7.21 | Jersey City | 3.37 |
| New Mexico | Jal | 87 | 7 | Tierra Amarilla 4 NNW | -2 | 15 | Lake Maloya | 3.55 | 57 Stations | .00 |
| New York | Poughkeepsie | 70 | 7 | Old Forge | 2 | 25 | Sherman | 7.45 | Plattsburgh | .69 |
| North Carolina | 2 Stations | 80 | 30- | Grandfather Mountain | -8 | 24 | Hatteras | 9.10 | 2 Stations | .78 |
| North Dakota | 6 Stations | 58 | 6+ | Fortuna 1 SSE | -18 | 22 | Linton | 2.81 | Ambrose 3 N | T |
| Ohio | Ironton | 74 | 9 | Urbana Sewage Plant | 1 | 24 | Willoughby-Eastlake | 6.85 | Delaware | 1.13 |
| Oklahoma | Altus Irr Resch Stn | 89 | 26 | Jay | 5 | 24 | Stilwell 1 NE | 2.76 | 4 Stations | .00 |
| Oregon | Lost Creek Dam | 79 | 3 | Spout Spgs Ski Lodge | 2 | 22 | Valsetz | 22.80 | Imnaha 5 N | .64 |
| Pennsylvania | 3 Stations | 70 | 9+ | Ebensburg Sewage Pl | 1 | 25 | Pottsville | 9.13 | Connellsville | 1.40 |
| Puerto Rico | 2 Stations, P R | 94 | 14+ | Adjuntas Substation, P R | 51 | 30+ | Pico Del Este, P R | 29.32 | Fredericksted Fort, V I | 2.56 |
| Rhode Island | 2 Stations | 63 | 11- | North Scituate 4 W | 13 | 25 | Kingston | 7.29 | Newport | 5.03 |
| South Carolina | Aiken | 84 | 8 | Parr | 8 | 25 | Hogback Mountain | 4.10 | Beaufort 7 SW | .16 |
| South Dakota | 2 Stations | 70 | 30 | Faulkton 1 NW | -9 | 27 | Lead 1 SE | 3.94 | Porcupine 16 NW | .17 |
| Tennessee | Rockwood 2 | 78 | 1 | 2 Stations | 2 | 25 | Jackson FAA AP | 3.24 | Pikeville | .84 |
| Texas | Poteet | 98 | 30 | 2 Stations | 11 | 23 | Houston-Deer Park | 3.85 | 167 Stations | .00 |
| Utah | Saint George | 76 | 1 | Soldier Creek | -4 | 15 | Silver Lake Brighton | 7.06 | ibapah | .07 |
| Vermont | 2 Stations | 68 | 3- | Mount Mansfield | 4 | 25 | Mount Mansfield | 5.53 | South Newbury | 1.45 |
| Virginia | 2 Stations | 78 | 29+ | Partlow 3 WNW | -3 | 25 | Washington | 9.17 | Allisonia | 1.11 |
| Washington | Point Grenville | 79 | 2 | Chesaw 4 NNW | -14 | 22 | Cougar 6 E | 18.59 | Sunnyside | .69 |
| West Virginia | 3 Stations | 75 | 10+ | Buckeye | -3 | 25 | Hacker Valley | 6.19 | Kopperston | 1.02 |
| Wisconsin | 2 Stations | 60 | 6 | Gordon | -13 | 27 | Mellen | 4.70 | Platteville | .95 |
| Wyoming | Pine Bluffs | 69 | 25 | Burgess Junction | -19 | 23 | Snake River | 5.37 | Diversion Dam | T |

* Data are for an earlier date or dates.

Note: Dates are the actual date applicable to the period of observation, except for the month of observation. In some cases the actual occurrence is on the calendar date preceding that shown. (See individual Climatograms Data for times of observations.)

D Water equivalent of snowfall wholly or partly estimated, using a ratio of 1 inch water equivalent to every 10 inches of snowfall.

ENGLISH UNITS

NOVEMBER 1970

[illegible]

See footnotes at end of table

ENGLISH UNITS

- 558 -

See footnotes at end of table

CLIMATOLOGICAL DATA

ENGLISH UNITS

NOVEMBER 1970

| State and Station | Elevation (ground) | Pressure | | Temperature | | | | | | Precipitation | | | | Wind | | | | No. of days
(sunrise to sunset) | | Sky cover tenths
(sunrise to sunset) | % | | | | | | | | | | | | |
|--------------------|--------------------|--------------|-----------|-----------------|-----------------|---------|-----------------------|---------|------|---------------|------|--------------------|---------------------|---------------------------|-------|-----------------------|----------------------|------------------------------------|-------------------------|---|------|-----------------|---------------------|-------|-------------|-------|-----------|----|----|-----|-----|-----|----|
| | | Station
Q | Sea level | Average maximum | Average minimum | Average | Departure from normal | Highest | Date | Lowest | Date | No. of days | | Average relative humidity | Total | Departure from normal | Greatest in 24 hours | | | | | No. of days | | Total | Ice pellets | | | | | | | | |
| | | | | | | | | | | | | Max 90 F. or above | Min. 32 F. or below | | | | | With thunderstorms | Maximum depth on ground | | | Resultant speed | Resultant direction | | | Speed | Direction | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ILLINOIS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MOBILE | 582 | 994.2 | 1016.3 | 47 | 31 | 39.2 | 0.0 | 63 | 6 | 7 | 23 | 0 | 13 | 30 | 72 | 1.25 | -0.70 | 0.88 | 8 | 0 | 0.2 | 1 | 1.9 | 26 | 39 | NW | 23 | 2 | 8 | 20 | 7.8 | 64 | |
| PEORIA | 652 | 991.9 | 1016.4 | 47 | 31 | 39.1 | -0.6 | 59 | 30.4 | 7 | 23 | 0 | 12 | 32 | 78 | 1.11 | -1.03 | 0.42 | 8 | 0 | 0 | 1 | 2.7 | 22 | 34 | NW | 23 | 4 | 4 | 20 | 7.9 | 34 | |
| ROCKFORD | 724 | 988.2 | 1016.7 | 45 | 31 | 37.7 | -0.6 | 58 | 6 | 8 | 23 | 0 | 15 | 31 | 76 | 1.36 | -1.01 | 0.52 | 8 | 0 | 0 | 1 | 1.8 | 28 | 32 | W | 23 | 4 | 4 | 21 | 7.9 | 45 | |
| SPRINGFIELD | 588 | 993.9 | 1016.5 | 50 | 38 | 41.7 | -0.1 | 64 | 6 | 11 | 23 | 0 | 11 | 33 | 73 | 0.70 | -1.66 | 0.29 | 8 | 0 | 0 | 1 | 1.2 | 27 | 33 | NW | 23.4 | 9 | 6 | 19 | 7.6 | 45 | |
| INDIANA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| EVANSVILLE | 381 | 1003.7 | 1018.0 | 54 | 36 | 44.6 | -0.2 | 72 | 29 | 12 | 24 | 0 | 11 | 35 | 72 | 1.08 | -1.18 | 0.99 | 6 | 1 | 1 | 1 | 2.3 | 26 | 26 | NW | 23.4 | 2 | 9 | 19 | 7.9 | 37 | |
| FORT WAYNE | 791 | 986.5 | 1017.0 | 47 | 34 | 40.4 | 1.5 | 63 | 9 | 11 | 23 | 0 | 10 | 34 | 79 | 2.93 | -0.38 | 1.01 | 11 | 1 | 2.6 | 2 | 4.2 | 23 | 41 | W | 23 | 2 | 2 | 22 | 8.5 | 24 | |
| INDIANAPOLIS | 722 | 987.5 | 1017.0 | 49 | 33 | 40.9 | 0.0 | 61 | 27 | 10 | 24 | 0 | 14 | 35 | 81 | 2.12 | -0.97 | 0.87 | 6 | 2 | 0.2 | 9 | 3.2 | 24 | 33 | NW | 23 | 2 | 4 | 24 | 8.4 | 41 | |
| SOUTH BEND | 773 | 987.5 | 1015.9 | 46 | 33 | 39.4 | 0.3 | 59 | 9 | 13 | 23 | 0 | 12 | 34 | 81 | 3.67 | -0.92 | 1.02 | 13 | 1 | 11.0 | 9 | 3.5 | 21 | 29 | W | 23 | 2 | 4 | 24 | 8.7 | 41 | |
| IOWA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BUHLINGTON | 692 | 981.0 | 1016.5 | 47 | 31 | 39.2 | -0.4 | 60 | 30.4 | 6 | 23 | 0 | 14 | 31 | 72 | 1.99 | -0.11 | 1.01 | 9 | 1 | 1 | 1 | 2.2 | 27 | 28 | W | 23 | 3 | 8 | 19 | 7.7 | 36 | |
| DES MOINES | 654 | 981.0 | 1016.5 | 47 | 34 | 39.8 | -0.4 | 60 | 30.4 | 6 | 23 | 0 | 14 | 31 | 72 | 1.99 | -0.11 | 1.01 | 9 | 1 | 1 | 1 | 2.2 | 27 | 28 | W | 23 | 3 | 8 | 19 | 7.7 | 36 | |
| OSCEOLA | 1265 | 976.0 | 1016.5 | 44 | 30 | 36.7 | 1.9 | 57 | 6 | 5 | 23 | 0 | 17 | 29 | 68 | 1.46 | -0.30 | 0.71 | 12 | 0 | 0.2 | 9 | 3.0 | 31 | 34 | W | 23 | 2 | 4 | 21 | 8.2 | 44 | |
| STANLEY | 1265 | 976.0 | 1016.5 | 44 | 30 | 36.7 | 1.9 | 57 | 6 | 5 | 23 | 0 | 17 | 29 | 68 | 1.46 | -0.30 | 0.71 | 12 | 0 | 0.2 | 9 | 3.0 | 31 | 34 | W | 23 | 2 | 4 | 21 | 8.2 | 44 | |
| WATERLOO | 388 | 985.7 | 1016.3 | 42 | 27 | 34.7 | -0.3 | 58 | 6 | 3 | 24 | 0 | 23 | 27 | 77 | 1.41 | -0.42 | 0.70 | 11 | 0 | 1.0 | 1 | 2.2 | 32 | 45 | W | 23 | 2 | 8 | 20 | 8.1 | 44 | |
| KANSAS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CONCORDIA | 1471 | 983.1 | 1017.5 | 50 | 29 | 39.6 | -1.9 | 70 | 6 | 11 | 23 | 0 | 21 | 30 | 74 | 0.22 | -0.78 | 0.09 | 4 | 1 | 0.2 | 9 | 3.1 | 31 | 35 | W | 23.4 | 5 | 5 | 20 | 7.3 | 47 | |
| DOVER CITY | 2589 | 924.8 | 1017.2 | 54 | 29 | 41.7 | -1.1 | 74 | 30.4 | 13 | 23 | 0 | 21 | 25 | 68 | 0.06 | -0.58 | 0.04 | 2 | 0 | 0 | 1 | 3.8 | 42 | W | 21 | 3 | 10 | 14 | 6.6 | 61 | | |
| OSCEOLA | 654 | 981.0 | 1016.5 | 47 | 34 | 39.8 | -0.4 | 60 | 30.4 | 6 | 23 | 0 | 14 | 31 | 72 | 1.99 | -0.11 | 1.01 | 9 | 1 | 1 | 1 | 2.2 | 27 | 28 | W | 23 | 2 | 4 | 21 | 8.2 | 44 | |
| TOPEKA | 877 | 984.8 | 1017.4 | 51 | 32 | 41.2 | -1.4 | 70 | 6 | 10 | 24 | 0 | 14 | 31 | 72 | 1.23 | -0.27 | 0.50 | 7 | 2 | 0 | 1 | 3.4 | 29 | 40 | W | 23 | 3 | 7 | 13 | 7.5 | 44 | |
| WICHITA | 1321 | 968.8 | 1017.5 | 53 | 30 | 41.5 | -2.9 | 70 | 7.4 | 11 | 24 | 0 | 20 | 27 | 60 | 0.05 | -0.47 | 0.02 | 3 | 0 | 0 | 1 | 2.5 | 31 | 37 | W | 23 | 3 | 7 | 13 | 7.5 | 44 | |
| KENTUCKY | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| COVINGTON | 869 | 985.4 | 1017.4 | 54 | 37 | 45.0 | -2.3 | 69 | 29 | 13 | 24 | 0 | 8 | 34 | 66 | 2.29 | -0.72 | 0.92 | 0 | 1 | 0.4 | 9 | 3.7 | 23 | 26 | W | 23 | 2 | 4 | 24 | 8.4 | 47 | |
| LEXINGTON | 965 | 982.1 | 1016.2 | 52 | 35 | 44.6 | -1.1 | 68 | 9 | 10 | 24 | 0 | 11 | 35 | 73 | 2.35 | -0.94 | 0.92 | 11 | 2 | 0 | 1 | 4.0 | 21 | 28 | W | 23 | 3 | 5 | 21 | 8.0 | 47 | |
| LOUISVILLE | 477 | 997.7 | 1017.7 | 54 | 37 | 45.3 | 0.6 | 70 | 29 | 15 | 24 | 0 | 8 | 36 | 71 | 1.75 | -1.44 | 0.66 | 9 | 1 | 0.3 | 9 | 3.0 | 24 | 30 | W | 23 | 3 | 4 | 20 | 7.9 | 33 | |
| LOUISIANA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ALBUQUERQUE | 72 | 1015.7 | 1020.3 | 65 | 39 | 52.2 | -4.4 | 77 | 29 | 24 | 24 | 0 | 6 | 46 | 75 | 3.08 | -1.70 | 1.73 | 5 | 2 | 0.0 | 9 | 1.3 | 31 | 23 | 1 | 12.4 | 12 | 10 | 8 | 5.7 | 47 | |
| BATON ROUGE | 64 | 1017.3 | 1019.8 | 66 | 43 | 54.4 | -4.5 | 76 | 28 | 24 | 24 | 0 | 4 | 46 | 75 | 1.34 | -2.75 | 0.91 | 3 | 2 | 0.0 | 9 | 0.6 | 23 | 23 | 34 | 23.4 | 14 | 3 | 3 | 4.4 | 44 | |
| LAKE CHARLES | 9 | 1018.6 | 1019.8 | 69 | 45 | 56.7 | -2.9 | 80 | 29 | 30 | 24 | 0 | 3 | 48 | 72 | 1.87 | -2.35 | 1.55 | 3 | 2 | 0.0 | 9 | 0.4 | 12 | 29 | 1 | 22 | 14 | 3 | 3 | 4.4 | 44 | |
| NEW ORLEANS | 9 | 1019.3 | 1020.3 | 69 | 45 | 56.4 | -4.6 | 80 | 28 | 24 | 25 | 0 | 3 | 48 | 77 | 0.85 | -2.49 | 0.40 | 3 | 0 | 0.0 | 9 | 0.2 | 32 | 29 | 14 | 13 | 37 | 5 | 3 | 3.8 | 44 | |
| SHEEP POINT | 254 | 1009.5 | 1018.9 | 65 | 43 | 54.7 | -1.0 | 79 | 29 | 26 | 24 | 0 | 6 | 42 | 68 | 2.09 | -2.12 | 1.49 | 6 | 3 | 0.0 | 9 | 2.1 | 23 | 24 | 34 | 34 | 4 | 1 | 13 | 4.9 | 47 | |
| MAINE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CARIBOU | 624 | 994.2 | 1017.8 | 42 | 26 | 34.6 | 4.4 | 61 | 2 | 5 | 26 | 0 | 24 | 34 | 75 | 1.85 | -1.19 | 0.68 | 14 | 0 | 11.0 | 4 | 1.5 | 35 | 32 | NW | 21 | 3 | 7 | 20 | 8.1 | 30 | |
| PORTLAND | 43 | 1015.6 | 1017.8 | 48 | 35 | 41.3 | 3.2 | 60 | 7.4 | 20 | 26 | 0 | 9 | 34 | 75 | 2.38 | -1.79 | 0.53 | 12 | 0 | 0.0 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7.7 | 30 |
| MASSACHUSETTS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BLUE HILL OBS. ST. | 629 | 994.2 | 1017.8 | 42 | 26 | 34.6 | 4.4 | 61 | 2 | 5 | 26 | 0 | 24 | 34 | 75 | 1.85 | -1.19 | 0.68 | 14 | 0 | 11.0 | 4 | 1.5 | 35 | 32 | NW | 21 | 3 | 7 | 20 | 8.1 | 30 | |
| BOSTON | 16 | 1016.6 | 1017.6 | 49 | 37 | 44.8 | -0.1 | 63 | 7 | 25 | 26 | 0 | 3 | 38 | 81 | 5.63 | 1.10 | 2.14 | 14 | 0 | 0 | 9 | 2.3 | 36 | 40 | W | 21 | 5 | 5 | 20 | 7.7 | 30 | |
| WORCESTER | 986 | 983.0 | 1018.1 | 47 | 34 | 40.2 | 1.0 | 61 | 1 | 13 | 25 | 0 | 13 | 33 | 78 | 5.75 | -0.51 | 0.66 | 14 | 0 | 0 | 9 | 2.1 | 34 | 31 | W | 23 | 6 | 2 | 22 | 7.6 | 44 | |
| MICHIGAN | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ALPENA | 689 | 983.5 | 1016.2 | 44 | 29 | 36.2 | 1.6 | 61 | 6 | 18 | 25 | 0 | 23 | 30 | 77 | 2.18 | -0.19 | 0.56 | 14 | 0 | 11.0 | 6 | 1.2 | 26 | 44 | W | 21 | 4 | 8 | 18 | 7.0 | 30 | |
| DETROIT | 619 | 991.1 | 1015.7 | 46 | 34 | 40.0 | 0.7 | 62 | 9 | 17 | 24 | 0 | 11 | 34 | 76 | 0.63 | -0.46 | 0.70 | 12 | 0 | 1.1 | 1 | 3.5 | 35 | 30 | W | 23 | 3 | 4 | 24 | 8.6 | 23 | |
| GRAND RAPIDS | 784 | 985.8 | 1015.5 | 44 | 34 | 38.3 | 1.2 | 60 | 9 | 17 | 23 | 0 | 10 | 33 | 77 | 2.92 | -0.72 | 0.94 | 14 | 0 | 1.5 | 1 | 2.0 | 28 | 32 | W | 23 | 2 | 4 | 24 | 8.7 | 26 | |
| Houghton Lake | 1469 | 972.2 | 1015.2 | 42 | 29 | 35.5 | 1.4 | 57 | 9 | 15 | 23 | 0 | 21 | 31 | 92 | 2.88 | -1.44 | 1.66 | 14 | 0 | 17.0 | 11 | 3.0 | 27 | 40 | W | 23 | 2 | 4 | 24 | 8.7 | 26 | |
| LANSING | 841 | 983.1 | 1015.5 | 45 | 33 | 39.1 | 1.2 | 63 | 9 | 15 | 24 | 0 | 21 | 31 | 72 | 2.68 | -0.60 | 0.87 | 14 | 0 | 11.0 | 4 | 1.5 | 35 | 37 | W | 23 | 2 | 4 | 24 | 8.6 | 23 | |
| MARQUETTE | 677 | | | 40 | 30 | 35.2 | 1.4 | 58 | 6 | 17 | 24 | 0 | 15 | 31 | 72 | 2.68 | -0.60 | 0.87 | 14 | 0 | 11.0 | 4 | 1.5 | 35 | 37 | W | 23 | 2 | 4 | 24 | 8.6 | 23 | |

CLIMATOLOGICAL DATA

ENGLISH UNITS

MAY-JUNE 1970

| State and Station | Elevation (ground) | Pressure | | Temperature | | | | | | | | | | Precipitation | | | | Wind | | | | No. of days (sunrise to sunset) | | Possible sunshine | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | | Station O | Sea level | Average maximum | Average minimum | Average | Departure from normal | Highest | Lowest | Date | Date | Max. 90 F. or above | Min. 32 F. or below | Average relative humidity | Total | In. | Departure from normal | Greatest in 24 hours | No. of days | Ice pellets | Snow, Maximum depth on ground | | | | Resultant speed | Resultant direction | Speed | Direction | Date | Fastest mile | Clear, 0-3 | Partly cloudy, 4-7 | Cloudy, 8-10 | Sky cover, tenths (sunrise to sunset) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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CLIMATOLOGICAL DATA

ENGLISH UNITS

NOVEMBER 1970

| State and Station | Elevation (ground) | Pressure | | Temperature | | | | | | Precipitation | | | | Wind | | | | No. of days (sunrise to sunset) | | Sky cover, tenths (sunrise to sunset) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------|--------------------|----------|-----------|-----------------|-----------------|---------|-----------------------|---------|--------|---------------|------|----------------------|----------------------|-------|-----|------|-----------------|---------------------------------|--------------|---------------------------------------|-----------|------|--------------------|-------------------------|----------------------|-------------|-------------|-----------------------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|
| | | Station | Sea level | Average maximum | Average minimum | Average | Departure from normal | Highest | Lowest | Date | Date | No. of days | | Total | In. | Mph. | Resultant speed | Resultant direction | Fastest mile | | Direction | Date | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | Max. 90° F. or above | Min. 32° F. or below | | | | | | | | | | With thunderstorms | Maximum depth on ground | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | Greatest in 24 hours | No. of days | Ice pellets | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | Departure from normal | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. | In. | Mph. |

CLIMATOLOGICAL DATA

ENGLISH UNITS

January 1971

| State and Station | Elevation (ground) | Pressure | | Temperature | | | | | | Precipitation | | | | Wind | | | | No. of days (sunrise to sunset) | | | Possible sunshine | | | | | | | | |
|-------------------|--------------------|-----------|--------|-------------|-----------------------|---------|------|--------|---------------------|---------------------|-------|-----|--------|-----------------|---------------------|-------|-----------|---------------------------------|------------|--------------------|-------------------|--------------|-------------------|---------------------------|----------------------|------------------|--------------------|-------------|-------|
| | | Station Q | Mb. | Average | Departure from normal | Highest | Date | Lowest | No. of days | | Total | In. | M.p.h. | Resultant speed | Resultant direction | Speed | Direction | Date | Clear, 0-3 | Partly cloudy, 4-7 | | Cloudy, 8-10 | Sky cover, tenths | | | | | | |
| | | | | | | | | | Max. 90 F. or above | Min. 32 F. or below | | | | | | | | | | | | | | Average relative humidity | Greatest in 24 hours | 0.1 inch or more | With thunderstorms | Ice pellets | Snow. |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PACIFIC AREA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PAUOAGO | 12 | 1019.5 | 1010.6 | 79.5 | 0.1 | 90 | 25 | 69 | 23+ | 1 | 0 | 74 | 7.98 | 1.98 | 2.8 | 9 | 17 | NW | 204 | 1 | 12 | 17 | 7.4 | 42 | | | | | |
| PONAPE R | 123 | 1003.4 | 1008.7 | 80.0 | 0.1 | 90 | 23+ | 70 | 4 | 3 | 0 | 74 | 15.62 | 2.11 | 3.6 | 11 | 28 | NW | 204 | 0 | 6 | 24 | 8.9 | 49 | | | | | |
| TRUE MOEN ISLAND | 5 | 1008.1 | 1008.6 | 87.7 | 1.3 | 89 | 25+ | 74 | 15+ | 0 | 0 | 76 | 8.43 | 2.70 | 6.6 | 6 | 23 | NW | 204 | 0 | 4 | 24 | 8.9 | 49 | | | | | |
| WAKE | 11 | 1012.2 | 1012.4 | 81.4 | -0.1 | 90 | 77 | 71 | 30 | 2 | 0 | 71 | 1.61 | 0.48 | 9.8 | 6 | 12 | NW | 27 | 13 | 14 | 3 | 4.1 | 47 | | | | | |
| YAP R | 44 | | | 81.4 | -0.1 | 89 | 30+ | 72 | 2 | 0 | 0 | 71 | 9.56 | 1.59 | 9.8 | 6 | 26 | NW | 26 | 0 | 9 | 21 | 7.9 | 74 | | | | | |
| PENNSYLVANIA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ALLENTOWN | 387 | 1003.1 | 1017.4 | 44.0 | 2.1 | 64 | 11 | 18 | 24 | 0 | 9 | 38 | 6.08 | 1.92 | 1.2 | 34 | 13 | 29 | 21+ | 6 | 3 | 21 | 7.5 | 78 | | | | | |
| ERIE | 731 | 989.2 | 1016.3 | 46.3 | -0.8 | 61 | 19 | 15 | 25+ | 0 | 10 | 32 | 4.59 | 1.51 | 1.7 | 30 | 17 | 31 | 21 | 2 | 2 | 24 | 8.9 | 78 | | | | | |
| HARRISBURG | 338 | 1004.1 | 1017.2 | 53 | 39 | 66 | 11+ | 20 | 25+ | 0 | 7 | 36 | 4.59 | 0.53 | 1.6 | 30 | 10 | 29 | NW | 4 | 5 | 1 | 7.2 | 78 | | | | | |
| PHILADELPHIA | 5 | 1016.3 | 1017.2 | 56 | 41 | 67 | 12+ | 19 | 24 | 0 | 7 | 41 | 7.8 | 1.31 | 3.8 | 25 | 13 | 29 | NW | 4 | 5 | 1 | 7.2 | 78 | | | | | |
| PITTSBURGH | 1137 | 971.9 | 1016.7 | 48 | 36 | 62 | 12 | 11 | 25 | 0 | 9 | 35 | 7.8 | 0.53 | 3.8 | 25 | 15 | 35 | NW | 2 | 3 | 3 | 8.5 | 79 | | | | | |
| SCRANTON | 930 | 983.1 | 1017.8 | 48 | 35 | 62 | 11 | 14 | 24 | 0 | 10 | 35 | 7.8 | 0.53 | 3.8 | 25 | 12 | 30 | NW | 2 | 3 | 3 | 8.5 | 79 | | | | | |
| WILLIAMSPORT | 524 | 998.0 | 1017.3 | 52 | 38 | 65 | 11 | 18 | 24 | 0 | 8 | 38 | 7.7 | 1.09 | 3.8 | 25 | 14 | 32 | NW | 2 | 3 | 3 | 8.5 | 79 | | | | | |
| RHODE ISLAND | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BLACK ISLAND | 110 | | | 47.4 | 2.2 | 61 | 3 | 22 | 26 | 0 | 3 | 37 | 6.20 | 2.49 | 2.9 | 1 | 11 | 29 | 21 | 5 | 9 | 19 | 7.4 | 34 | | | | | |
| PROVIDENCE | 51 | 1015.2 | 1017.6 | 47.4 | 1.7 | 63 | 11+ | 19 | 26 | 0 | 9 | 37 | 5.31 | 1.20 | 2.9 | 1 | 13 | 29 | 21 | 5 | 9 | 19 | 7.4 | 34 | | | | | |
| SOUTH CAROLINA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CHARLESTON | 40 | 1016.6 | 1018.5 | 54.1 | -1.8 | 79 | 30+ | 16 | 25 | 0 | 5 | 43 | 0.67 | 1.42 | 2.8 | 28 | 4 | 37V | SW | 20 | 17 | 8 | 5 | 3.6 | 76 | | | | |
| CHARLESTON U | 9 | | | 56.4 | -4.2 | 78 | 30 | 24 | 24 | 0 | 2 | 41 | 0.66 | 1.26 | 2.8 | 28 | 5 | 25 | NW | 24+ | 17 | 8 | 5 | 3.6 | 76 | | | | |
| COLUMBIA | 213 | 1010.2 | 1018.4 | 50.7 | -3.0 | 79 | 29 | 12 | 25 | 0 | 10 | 41 | 1.43 | 0.93 | 2.8 | 28 | 4 | 21 | 32 | 24+ | 14 | 8 | 7 | 4.1 | 64 | | | | |
| GRNVILLE SPRING | 957 | 983.4 | 1018.4 | 50.7 | -3.0 | 79 | 30 | 12 | 25 | 0 | 9 | 38 | 1.77 | 1.07 | 1.5 | 29 | 7 | 24 | 23 | 24 | 15 | 9 | 6 | 4.2 | 64 | | | | |
| SOUTH DAKOTA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ABERDEEN | 1296 | 969.9 | 1018.1 | 38 | 23 | 57 | 5 | -6 | 27 | 0 | 24 | 26 | 1.39 | 0.65 | 3.4 | 36 | 8 | 30 | 18 | 24 | 4 | 4 | 2 | 7.5 | 38 | | | | |
| HURON | 1281 | 969.9 | 1017.8 | 41 | 25 | 60 | 5 | 1 | 26 | 0 | 21 | 24 | 1.66 | 0.98 | 1.07 | 35 | 11 | 42 | S | 24 | 7 | 3 | 2 | 7.4 | 36 | | | | |
| RAPID CITY | 3162 | 904.2 | 1017.6 | 44 | 24 | 65 | 30 | 2 | 23 | 0 | 26 | 23 | 0.80 | 0.39 | 0.95 | 34 | 9 | 50 | NW | 30 | 4 | 10 | 16 | 7.4 | 36 | | | | |
| STIOUX FALLS | 1418 | 964.1 | 1017.0 | 44 | 23 | 64 | 30 | 3 | 23 | 0 | 24 | 25 | 2.17 | 1.17 | 1.5 | 34 | 1 | 35 | 29 | 22 | 6 | 4 | 2 | 7.4 | 36 | | | | |
| TENNESSEE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BRISTOL | 1507 | 963.4 | 1018.3 | 57 | 37 | 68 | 10 | 25 | 0 | 24 | 0 | 9 | 36 | 1.33 | 0.51 | 2.1 | 26 | 6 | 23 | 20 | 4 | 11 | 15 | 7.1 | 45 | | | | |
| CHATTANOOGA | 665 | 993.6 | 1018.6 | 55 | 47.0 | 71 | 30 | 13 | 24 | 0 | 10 | 38 | 2.03 | 1.62 | 0.97 | 7 | 1 | 23 | 23 | 23 | 5 | 9 | 16 | 6.8 | 45 | | | | |
| KNOXVILLE | 980 | 982.7 | 1018.4 | 58 | 48.1 | 72 | 29+ | 13 | 24 | 0 | 8 | 37 | 1.40 | 0.43 | 0.43 | 9 | 1 | 24 | 24 | 24+ | 4 | 11 | 15 | 7.0 | 41 | | | | |
| MEMPHIS | 258 | 1008.5 | 1018.9 | 59 | 40 | 76 | 29+ | 15 | 24 | 0 | 6 | 37 | 2.62 | 1.76 | 0.95 | 8 | 1 | 30 | 24 | 33 | 5 | 19 | 8 | 6.5 | 60 | | | | |
| NASHVILLE | 590 | 996.3 | 1018.3 | 57 | 38 | 71 | 30 | 12 | 24 | 0 | 6 | 38 | 2.20 | 1.08 | 1.05 | 9 | 3 | 4.0 | 23 | 20 | 6 | 7 | 17 | 7.0 | 36 | | | | |
| OAK RIDGE R | 905 | | | 47.5 | -1.0 | 74 | 30 | 12 | 24 | 0 | 8 | 38 | 1.78 | 1.99 | 0.55 | 10 | 1 | 4.0 | 23 | 20 | 6 | 7 | 17 | 7.0 | 36 | | | | |
| TEXAS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ABILENE | 1762 | 956.0 | 1018.4 | 51.2 | -1.8 | 84 | 7 | 15 | 24 | 0 | 11 | 29 | 0.08 | 1.03 | 0.56 | 23 | 1 | 36 | 30 | 30 | 17 | 7 | 6 | 3.7 | 77 | | | | |
| AMARILLO | 3604 | 931.3 | 1018.1 | 51.2 | -1.8 | 84 | 25 | 16 | 23 | 0 | 15 | 24 | 0.26 | 0.40 | 0.26 | 28 | 1 | 59 | NW | 8 | 11 | 10 | 4 | 4.8 | 73 | | | | |
| AUSTIN | 597 | 997.3 | 1019.5 | 71 | 44 | 82 | 30+ | 16 | 23 | 0 | 4 | 39 | 0.14 | 0.18 | 0.14 | 18 | 0 | 35 | SW | 25 | 15 | 11 | 4 | 3.7 | 74 | | | | |
| BROWNSVILLE | 19 | 1018.6 | 1019.1 | 78 | 54 | 82 | 30+ | 16 | 23 | 0 | 4 | 39 | 0.14 | 0.18 | 0.14 | 18 | 0 | 53 | SW | 15 | 11 | 8 | 7 | 4.1 | 74 | | | | |
| CORPUS CHRISTI | 41 | 1017.6 | 1019.1 | 78 | 54 | 82 | 30+ | 16 | 23 | 0 | 4 | 39 | 0.81 | 0.91 | 0.81 | 12 | 0 | 31 | SW | 15 | 11 | 8 | 7 | 4.1 | 74 | | | | |
| DALLAS | 481 | 1001.0 | 1018.6 | 66 | 45 | 87 | 22+ | 33 | 16 | 0 | 0 | 51 | 0.81 | 0.91 | 0.81 | 12 | 0 | 31 | SW | 15 | 11 | 8 | 7 | 4.1 | 74 | | | | |
| DEL RIO | 1026 | 982.7 | 1018.1 | 72 | 43 | 85 | 22 | 26 | 24 | 0 | 3 | 38 | 0.38 | 2.32 | 0.38 | 1 | 1 | 31 | SW | 19 | 18 | 9 | 3 | 4.2 | 71 | | | | |
| EL PASO | 3918 | 884.5 | 1017.7 | 69 | 35 | 85 | 22 | 26 | 24 | 0 | 3 | 38 | 0.38 | 2.32 | 0.38 | 1 | 1 | 31 | SW | 19 | 18 | 9 | 3 | 4.2 | 71 | | | | |
| FORT WORTH | 537 | 998.3 | 1019.1 | 67 | 42 | 89 | 22 | 26 | 24 | 0 | 3 | 38 | 0.38 | 2.32 | 0.38 | 1 | 1 | 31 | SW | 19 | 18 | 9 | 3 | 4.2 | 71 | | | | |
| HOUSTON | 96 | 1016.3 | 1020.0 | 66 | 55 | 89 | 22 | 26 | 24 | 0 | 3 | 38 | 0.38 | 2.32 | 0.38 | 1 | 1 | 31 | SW | 19 | 18 | 9 | 3 | 4.2 | 71 | | | | |
| HOUSTON INTERCON | 3294 | 904.8 | 1017.2 | 65 | 33 | 88 | 25 | 19 | 23 | 0 | 13 | 26 | 1.44 | 2.08 | 1.44 | 2 | 0 | 40 | 28 | 30 | 16 | 6 | 8 | 4.1 | 70 | | | | |
| LUBBOCK | 2851 | 918.7 | 1017.6 | 70 | 36 | 86 | 25 | 19 | 23 | 0 | 13 | 26 | 1.44 | 2.08 | 1.44 | 2 | 0 | 40 | 28 | 30 | 16 | 6 | 8 | 4.1 | 70 | | | | |
| MIDLAND | 16 | 1019.3 | 1018.5 | 70 | 38 | 89 | 22 | 26 | 24 | 0 | 3 | 38 | 0.38 | 2.32 | 0.38 | 1 | 1 | 31 | SW | 19 | 18 | 9 | 3 | 4.2 | 71 | | | | |
| PORT ARTHUR | 1903 | 951.2 | 1018.5 | 71 | 38 | 89 | 22 | 26 | 24 | 0 | 3 | 38 | 0.38 | 2.32 | 0.38 | 1 | 1 | 31 | SW | 19 | 18 | 9 | 3 | 4.2 | 71 | | | | |
| SAN ANGELO | 788 | 991.5 | 1019.7 | 73 | 43 | 86 | 22 | 26 | 24 | 0 | 3 | 38 | 0.38 | 2.32 | 0.38 | 1 | 1 | 31 | SW | 19 | 18 | 9 | 3 | 4.2 | 71 | | | | |
| SAN ANTONIO | 1304 | 1015.2 | 1019.5 | 73 | 47 | 86 | 22 | 26 | 24 | 0 | 3 | 38 | 0.38 | 2.32 | 0.38 | 1 | 1 | 31 | SW | 19 | 18 | 9 | 3 | 4.2 | 71 | | | | |
| VICTORIA | 501 | 1000.7 | 1019.1 | 69 | 43 | 81 | 30 | 24 | 24 | 0 | 4 | 40 | 0.13 | 2.06 | 0.13 | 1 | 0 | 45V | 18 | 26+ | 18 | 5 | 7 | 3.6 | 83 | | | | |

See footnotes at end of table

| State and Station | Elevation (ground) | Pressure | | Temperature | | | | | | | | Precipitation | | | | Wind | | | | No of days
(sunrise to
sunset) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------|--------------------|--------------|-----------|-----------------|-----------------|---------|-----------------------|----|---------|--------|------|---------------|----|---------------------------|-------|-----------------------|----------------------|-------------|----|--------------------------------------|----|-------|----------------------|----|-----------------|---------------------|-------|-----------|--------------|------------|--------------------|--------------|--|-------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| | | Station
Q | Sea level | Average maximum | Average minimum | Average | Departure from normal | | Highest | Lowest | Date | No of days | | Average relative humidity | Total | Departure from normal | Greatest in 24 hours | No. of days | | | | Total | Snow,
ice pellets | | Resultant speed | Resultant direction | Speed | Direction | Fastest mile | Clear, 0-3 | Partly cloudy, 4-7 | Cloudy, 8-10 | Sky cover, tenths
(sunrise to sunset) | Possible sunshine | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | F. | F. | | | | F. | F. | | | | | F. | F. | F. | F. | | F. | F. | | | | | | | | | | | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. | F. |

Data from airport unless otherwise specified. U indicates Urban, R indicates Rural, sites.

Precipitation data in column headed "Greatest in 24 hours" are computed on a 24-hour basis without regard to calendar day - data may include precipitation with a measurable amount from the last day of the previous month or the first day of the following month.

Wind directions under resultant direction are in tens of degrees.

Value entered in column "Fastest Mile" is the highest observed 1-minute wind speed when the direction is in tens of degrees. These stations are not equipped with a recording anemometer from which "Fastest Mile" data can be evaluated.

B Number of days maximum 70° F. or above for Alaskan Stations.

Y Peak Gust.

* And also on an earlier date or dates.

Ø Station pressures apply to elevations shown in the "Elevations - Station Pressure" table of the annual issue of this publication.

V Sun below horizon November 19 - 30, inclusive.

X Sun below horizon November 24 - 30, inclusive.

CLIMATOLOGICAL DATA

METRIC UNITS

NOVEMBER 1977

| State and Station | Elevation (ground) | Pressure | | Temperature | | | | | Precipitation | | | | Wind | | | No. of days
sunrise to
sunset | Possible sunshine
(sunrise to sunset) | | | | | | | | | | | | |
|-------------------|--------------------|--------------|-----------|-----------------|-----------------|---------|-----------------------|---------|---------------|----------------|-------------------|---------------------------|-------|-----------------------|----------------------|-------------------------------------|--|----------------|----------------------|-----------------|---------------------|--------------------------|-----------|------|-----------|-------------------|-------------|----------------------|-------------------|
| | | Station
Q | Sea level | Average maximum | Average minimum | Average | Departure from normal | Date | | No. of
days | Average dew point | Average relative humidity | Total | Departure from normal | Greatest in 24 hours | | | No. of
days | Snow,
ice pellets | Resultant speed | Resultant direction | Speed
(16 kilometers) | Direction | Date | Clear 0-3 | Partly cloudy 4-7 | Cloudy 8-10 | | |
| | | | | | | | | Highest | Lowest | | | | | | | | | | | | | | | | | | | Max 32.2 °C or above | Min 0 °C or lower |
| ALABAMA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BIRMINGHAM | 189 | 996.6 | 1019.7 | 16.1 | 3.2 | 9.1 | 24.4 | 30 | -10.6 | 24 | 0 | 9 | 2.8 | 69 | 59 | 31 | 24 | 7 | 3 | 3 | 7 | 1 | 0 | 0.6 | 28 | 12.1 | 10 | 13 | 6.1 |
| HUNTSVILLE | 190 | 995.9 | 1019.5 | 15.6 | 3.3 | 9.3 | 24.4 | 30 | -9.4 | 24 | 0 | 8 | 4.4 | 73 | 66 | 27 | 31 | 7 | 0 | 0 | 0 | 0 | 0 | 0.6 | 27 | 12.1 | 10 | 13 | 6.1 |
| MOBILE | 64 | 1011.9 | 1019.9 | 20.0 | 6.7 | 13.3 | 26.1 | 30 | -4.4 | 25 | 0 | 4 | 7.2 | 72 | 39 | 39 | 46 | 23 | 7 | 1 | 0 | 0 | 0 | 0.6 | 27 | 12.1 | 10 | 13 | 6.1 |
| MONTGOMERY | 56 | 1012.5 | 1020.0 | 17.8 | 3.9 | 10.8 | 25.6 | 30 | -7.8 | 25 | 0 | 6 | 4.4 | 69 | 38 | 38 | 39 | 25 | 6 | 1 | 0 | 0 | 0 | 1.0 | 27 | 12.6 | 10 | 13 | 6.1 |
| ALASKA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ANCHORAGE | 35 | 1009.1 | 1014.4 | -1.7 | -6.7 | -3.9 | 7.8 | 1 | -19.4 | 30 | 0 | 25 | -6.7 | 79 | 31 | 16 | 5 | 7 | 0 | 0 | 0 | 0 | 0 | 1.7 | 1 | 16.5 | 34 | 29 | 7.0 |
| ANNETTE | 34 | 1007.5 | 1011.6 | 7.8 | 0.6 | 4.1 | 19.4 | 1 | -7.8 | 30 | 0 | 14 | -3.9 | 59 | 92 | -280 | 40 | 16 | 0 | 0 | 0 | 0 | 0 | 1.4 | 1 | 14.3 | 10 | 14 | 6.4 |
| BARROW | 9 | 1015.2 | 1015.8 | -16.1 | -24.4 | -20.1 | 1.9 | 17 | -34.4 | 26 | 0 | 30 | -22.2 | 82 | 12 | 7 | 3 | 3 | 0 | 0 | 0 | 0 | 0 | 1.7 | 1 | 16.5 | 10 | 14 | 6.4 |
| BARTER ISLAND | 12 | 1013.9 | 1016.0 | -13.9 | -22.8 | -18.2 | 0.6 | 1 | -7.8 | 26 | 0 | 30 | -22.2 | 82 | 12 | 7 | 3 | 3 | 0 | 0 | 0 | 0 | 0 | 1.7 | 1 | 16.5 | 10 | 14 | 6.4 |
| BETHEL | 38 | 1009.1 | 1014.8 | 0.6 | -5.6 | -2.5 | 6.7 | 7 | -1.7 | 26 | 0 | 28 | -3.2 | 91 | 41 | 14 | 15 | 15 | 0 | 0 | 0 | 0 | 0 | 1.6 | 2 | 16.1 | 10 | 14 | 6.1 |
| BETHELLES | 196 | 990.9 | 1017.9 | -12.8 | -23.3 | -18.1 | 2.2 | 7 | -1.7 | 30 | 0 | 28 | -3.2 | 91 | 41 | 14 | 15 | 15 | 0 | 0 | 0 | 0 | 0 | 1.6 | 2 | 16.1 | 10 | 14 | 6.1 |
| BIG DELTA | 386 | 1016.2 | 1017.8 | 6.1 | -14.4 | -10.8 | 9.4 | 1 | -34.4 | 30 | 0 | 29 | -3.2 | 91 | 41 | 14 | 15 | 15 | 0 | 0 | 0 | 0 | 0 | 1.6 | 2 | 16.1 | 10 | 14 | 6.1 |
| COLD BAY | 29 | 1016.2 | 1017.8 | 6.1 | -14.4 | -10.8 | 9.4 | 1 | -34.4 | 30 | 0 | 29 | -3.2 | 91 | 41 | 14 | 15 | 15 | 0 | 0 | 0 | 0 | 0 | 1.6 | 2 | 16.1 | 10 | 14 | 6.1 |
| FAIRBANKS | 133 | 998.3 | 1016.3 | -6.7 | -17.2 | -11.8 | 3.8 | 7 | -1.7 | 30 | 0 | 13 | 0.6 | 83 | 70 | 23 | 19 | 14 | 0 | 0 | 0 | 0 | 2.5 | 2 | 15.6 | 11 | 22 | 8.3 | |
| GULF CANON | 479 | 957.3 | 1019.2 | -10.0 | -16.1 | -13.2 | 7.8 | 1 | -32.6 | 30 | 0 | 30 | -14.4 | 86 | 84 | 69 | 21 | 14 | 0 | 0 | 0 | 0 | 1.7 | 1 | 16.5 | 10 | 14 | 6.4 | |
| HOMER | 20 | 1012.5 | 1013.2 | 3.9 | -2.8 | -0.5 | 9.3 | 8 | -17.2 | 27 | 0 | 21 | -3.2 | 92 | 45 | -24 | 18 | 9 | 0 | 0 | 0 | 0 | 0 | 1.7 | 1 | 16.5 | 10 | 14 | 6.4 |
| JUNEAU | 4 | 1012.5 | 1013.2 | 3.9 | -2.8 | -0.5 | 9.3 | 8 | -17.2 | 27 | 0 | 21 | -3.2 | 92 | 45 | -24 | 18 | 9 | 0 | 0 | 0 | 0 | 0 | 1.7 | 1 | 16.5 | 10 | 14 | 6.4 |
| KING SALMON | 15 | 1012.5 | 1014.6 | 2.2 | -5.0 | -1.5 | 8.9 | 8 | -16.1 | 30 | 0 | 26 | -5.0 | 76 | 20 | -103 | 8 | 15 | 0 | 0 | 0 | 0 | 0 | 1.7 | 1 | 16.5 | 10 | 14 | 6.4 |
| KOTZEBUE | 3 | 1011.9 | 1012.4 | -7.2 | -13.9 | -10.6 | 3.1 | 7 | -1.7 | 30 | 0 | 30 | -13.3 | 81 | 52 | -11 | 19 | 16 | 0 | 0 | 0 | 0 | 0 | 1.7 | 1 | 16.5 | 10 | 14 | 6.4 |
| KOTZEBUE | 105 | 1003.1 | 1016.2 | -5.0 | -15.6 | -10.4 | 4.4 | 2.8 | 27.4 | -33.9 | 30 | 0 | 30 | -14.4 | 68 | 42 | 17 | 13 | 0 | 0 | 0 | 0 | 0 | 1.7 | 1 | 16.5 | 10 | 14 | 6.4 |
| KOTZEBUE | 105 | 1003.1 | 1016.2 | -5.0 | -15.6 | -10.4 | 4.4 | 2.8 | 27.4 | -33.9 | 30 | 0 | 30 | -14.4 | 68 | 42 | 17 | 13 | 0 | 0 | 0 | 0 | 0 | 1.7 | 1 | 16.5 | 10 | 14 | 6.4 |
| KOTZEBUE | 105 | 1003.1 | 1016.2 | -5.0 | -15.6 | -10.4 | 4.4 | 2.8 | 27.4 | -33.9 | 30 | 0 | 30 | -14.4 | 68 | 42 | 17 | 13 | 0 | 0 | 0 | 0 | 0 | 1.7 | 1 | 16.5 | 10 | 14 | 6.4 |
| KOTZEBUE | 105 | 1003.1 | 1016.2 | -5.0 | -15.6 | -10.4 | 4.4 | 2.8 | 27.4 | -33.9 | 30 | 0 | 30 | -14.4 | 68 | 42 | 17 | 13 | 0 | 0 | 0 | 0 | 0 | 1.7 | 1 | 16.5 | 10 | 14 | 6.4 |
| KOTZEBUE | 105 | 1003.1 | 1016.2 | -5.0 | -15.6 | -10.4 | 4.4 | 2.8 | 27.4 | -33.9 | 30 | 0 | 30 | -14.4 | 68 | 42 | 17 | 13 | 0 | 0 | 0 | 0 | 0 | 1.7 | 1 | 16.5 | 10 | 14 | 6.4 |
| KOTZEBUE | 105 | 1003.1 | 1016.2 | -5.0 | -15.6 | -10.4 | 4.4 | 2.8 | 27.4 | -33.9 | 30 | 0 | 30 | -14.4 | 68 | 42 | 17 | 13 | 0 | 0 | 0 | 0 | 0 | 1.7 | 1 | 16.5 | 10 | 14 | 6.4 |
| KOTZEBUE | 105 | 1003.1 | 1016.2 | -5.0 | -15.6 | -10.4 | 4.4 | 2.8 | 27.4 | -33.9 | 30 | 0 | 30 | -14.4 | 68 | 42 | 17 | 13 | 0 | 0 | 0 | 0 | 0 | 1.7 | 1 | 16.5 | 10 | 14 | 6.4 |
| KOTZEBUE | 105 | 1003.1 | 1016.2 | -5.0 | -15.6 | -10.4 | 4.4 | 2.8 | 27.4 | -33.9 | 30 | 0 | 30 | -14.4 | 68 | 42 | 17 | 13 | 0 | 0 | 0 | 0 | 0 | 1.7 | 1 | 16.5 | 10 | 14 | 6.4 |
| KOTZEBUE | 105 | 1003.1 | 1016.2 | -5.0 | -15.6 | -10.4 | 4.4 | 2.8 | 27.4 | -33.9 | 30 | 0 | 30 | -14.4 | 68 | 42 | 17 | 13 | 0 | 0 | 0 | 0 | 0 | 1.7 | 1 | 16.5 | 10 | 14 | 6.4 |
| KOTZEBUE | 105 | 1003.1 | 1016.2 | -5.0 | -15.6 | -10.4 | 4.4 | 2.8 | 27.4 | -33.9 | 30 | 0 | 30 | -14.4 | 68 | 42 | 17 | 13 | 0 | 0 | 0 | 0 | 0 | 1.7 | 1 | 16.5 | 10 | 14 | 6.4 |
| KOTZEBUE | 105 | 1003.1 | 1016.2 | -5.0 | -15.6 | -10.4 | 4.4 | 2.8 | 27.4 | -33.9 | 30 | 0 | 30 | -14.4 | 68 | 42 | 17 | 13 | 0 | 0 | 0 | 0 | 0 | 1.7 | 1 | 16.5 | 10 | 14 | 6.4 |
| KOTZEBUE | 105 | 1003.1 | 1016.2 | -5.0 | -15.6 | -10.4 | 4.4 | 2.8 | 27.4 | -33.9 | 30 | 0 | 30 | -14.4 | 68 | 42 | 17 | 13 | 0 | 0 | 0 | 0 | 0 | 1.7 | 1 | 16.5 | 10 | 14 | 6.4 |
| KOTZEBUE | 105 | 1003.1 | 1016.2 | -5.0 | -15.6 | -10.4 | 4.4 | 2.8 | 27.4 | -33.9 | 30 | 0 | 30 | -14.4 | 68 | 42 | 17 | 13 | 0 | 0 | 0 | 0 | 0 | 1.7 | 1 | 16.5 | 10 | 14 | 6.4 |
| KOTZEBUE | 105 | 1003.1 | 1016.2 | -5.0 | -15.6 | -10.4 | 4.4 | 2.8 | 27.4 | -33.9 | 30 | 0 | 30 | -14.4 | 68 | 42 | 17 | 13 | 0 | 0 | 0 | 0 | 0 | 1.7 | 1 | 16.5 | 10 | 14 | 6.4 |
| KOTZEBUE | 105 | 1003.1 | 1016.2 | -5.0 | -15.6 | -10.4 | 4.4 | 2.8 | 27.4 | -33.9 | 30 | 0 | 30 | -14.4 | 68 | 42 | 17 | 13 | 0 | 0 | 0 | 0 | 0 | 1.7 | 1 | 16.5 | 10 | 14 | 6.4 |
| KOTZEBUE | 105 | 1003.1 | 1016.2 | -5.0 | -15.6 | -10.4 | 4.4 | 2.8 | 27.4 | -33.9 | 30 | 0 | 30 | -14.4 | 68 | 42 | 17 | 13 | 0 | 0 | 0 | 0 | 0 | 1.7 | 1 | 16.5 | 10 | 14 | 6.4 |
| KOTZEBUE | 105 | 1003.1 | 1016.2 | -5.0 | -15.6 | -10.4 | 4.4 | 2.8 | 27.4 | -33.9 | 30 | 0 | 30 | -14.4 | 68 | 42 | 17 | 13 | 0 | 0 | 0 | 0 | 0 | 1.7 | 1 | 16.5 | 10 | 14 | 6.4 |
| KOTZEBUE | 105 | 1003.1 | 1016.2 | -5.0 | -15.6 | -10.4 | 4.4 | 2.8 | 27.4 | -33.9 | 30 | 0 | 30 | -14.4 | 68 | 42 | 17 | 13 | 0 | 0 | 0 | 0 | 0 | 1.7 | 1 | 16.5 | 10 | 14 | 6.4 |
| KOTZEBUE | 105 | 1003.1 | 1016.2 | -5.0 | -15.6 | -10.4 | 4.4 | 2.8 | 27.4 | -33.9 | 30 | 0 | 30 | -14.4 | 68 | 42 | 17 | 13 | 0 | 0 | 0 | 0 | 0 | 1.7 | 1 | 16.5 | 10 | 14 | 6.4 |
| KOTZEBUE | 105 | 1003.1 | 1016.2 | -5.0 | -15.6 | -10.4 | 4.4 | 2.8 | 27.4 | -33.9 | 30 | 0 | 30 | -14.4 | 68 | 42 | 17 | 13 | 0 | 0 | 0 | 0 | 0 | 1.7 | 1 | 16.5 | 10 | 14 | 6.4 |
| KOTZEBUE | 105 | 1003.1 | 1016.2 | -5.0 | -15.6 | -10.4 | 4.4 | 2.8 | 27.4 | -33.9 | 30 | 0 | 30 | -14.4 | 68 | 42 | 17 | 13 | 0 | 0 | 0 | 0 | 0 | 1.7 | 1 | 16.5 | 10 | 14 | 6.4 |
| KOTZEBUE | 105 | 1003.1 | 1016.2 | -5.0 | -15.6 | -10.4 | 4.4 | 2.8 | 27.4 | -33.9 | 30 | 0 | 30 | -14.4 | 68 | 42 | 17 | 13 | 0 | 0 | 0 | 0 | 0 | 1.7 | 1 | 16.5 | 10 | 14 | 6.4 |
| KOTZEBUE | 105 | 1003.1 | 1016.2 | -5.0 | -15.6 | -10.4 | 4.4 | 2.8 | 27.4 | -33.9 | 30 | 0 | 30 | -14.4 | 68 | 42 | 17 | 13 | 0 | 0 | 0 | 0 | 0 | 1.7 | 1 | 16.5 | 10 | 14 | 6.4 |
| KOTZEBUE | 105 | 1003.1 | 1016.2 | -5.0 | -15.6 | -10.4 | 4.4 | 2.8 | 27.4 | -33.9 | 30 | 0 | 30 | -14.4 | 68 | 42 | 17 | 13 | 0 | 0 | 0 | 0 | 0 | 1.7 | 1 | 16.5 | 10 | 14 | 6.4 |
| KOTZEBUE | 105 | 1003.1 | 1016.2 | -5.0 | -15.6 | -10.4 | 4.4 | 2.8 | 27.4 | -33.9 | 30 | 0 | 30 | -14.4 | 68 | 42 | 17 | 13 | 0 | 0 | 0 | 0 | 0 | 1.7 | 1 | 16.5 | 10 | 14</ | |

CLIMATOLOGICAL DATA

METRIC UNITS

| State and Station | Elevation (ground) | Pressure | | Temperature | | | | | | Precipitation | | | | Wind | | | | No. of days (sunrise to sunset) | | Sky cover, tenths (sunrise to sunset) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------|--------------------|----------|-----------|-------------|--|-----------------------|--|---------|------|---------------|--------|------|-------------|------|---------------------------|-------|-----|---------------------------------|--|---------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | | Station | Sea level | Average | | Departure from normal | | Highest | Date | | Lowest | Date | No. of days | | Average relative humidity | Total | Mm. | | | | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. | Mm. |

METRIC UNITS

CHINESE CIVILIZATION

See footnotes at end of table

METRIC UNITS

METRIC UNITS

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See footnotes at end of table

CLIMATOLOGICAL DATA

METRIC UNITS

NOVEMBER 1937

| State and Station | Elevation (ground) | Pressure | | Temperature | | | | | | | | | | Precipitation | | | | Wind | | | No. of days
sunrise to
sunset | Possible sunshine | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | | Station
Q | Sea level | Average maximum | | | | | Average minimum | | | | | Departure from normal | | | | | No. of
days | | | | Fastest mile
(1.6 kilometers) | Direction | Date | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | C. | F. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

See footnotes at end of table

CLIMATOLOGICAL DATA

METRIC UNITS

| State and Station | Elevation (ground) | Pressure | | Temperature | | | | | | | | | | Precipitation | | | | Wind | | | No. of days
sunrise to
sunset | No. of days
sunrise to
sunset | Sky cover (tenths) | | | | | | | | | | |
|-------------------|--------------------|--------------|-----------|-----------------|-----------------|---------|-----------------------|---------|-------|--------|------|------------------|----------------|-------------------|---------------------------|--------------|-----------------------|---------------|--------------------|----------------|-------------------------------------|-------------------------------------|--------------------|----------------------|----------------------------|-------------------------|---------------------|---------------|------------------------------|------|-----------|-------------------|-------------|
| | | Station
Q | Sea level | Average maximum | Average minimum | Average | Departure from normal | Highest | Date | Lowest | Date | Max 32° or above | No. of
days | Average dew point | Average relative humidity | Total
mm. | Departure from normal | 25 mm or more | With thunderstorms | No. of
days | | | | Snow.
Ice pellets | Maximum depth
on ground | Resultant speed
Mph. | Resultant direction | Speed
Mph. | Direction
(16 kilometers) | Date | Clear 0-3 | Partly cloudy 4-7 | Cloudy 8-10 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| W | MB | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | | | |
| SOUTH CAROLINA | CHARLESTON U | 12 | 1016.6 | 19.4 | 5.0 | 12.3 | 1.0 | 26.1 | -8.9 | 25 | 0 | 5 | 6.1 | 17 | 16 | 1.4 | 28 | 16.5Y | SW | 25 | 1 | 8 | 4 | 5.6 | 7.4 | | | | | | | | |
| | CHARLESTON U | 3 | | 18.3 | 4.0 | 13.6 | 1.2 | 25.6 | -4.4 | 24 | 0 | 5 | 5.0 | 17 | 16 | 1.4 | 28 | 16.5Y | SW | 25 | 1 | 8 | 4 | 5.6 | 7.4 | | | | | | | | |
| | COLUMBIA | 55 | 1010.2 | 18.3 | 2.8 | 10.4 | 1.7 | 26.1 | -11.1 | 25 | 0 | 10 | 5.0 | 36 | 27 | 7 | 30 | 16.7 | SW | 25 | 1 | 8 | 4 | 5.6 | 7.4 | | | | | | | | |
| | GRNVILLE SPRTBGR | 232 | 983.4 | 16.1 | 2.2 | 9.3 | 1.4 | 25.0 | -11.1 | 25 | 0 | 5 | 3.3 | 45 | 27 | 7 | 30 | 16.7 | SW | 25 | 1 | 8 | 4 | 5.6 | 7.4 | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SOUTH DAKOTA | AURDEEN | 395 | 969.9 | 1018.1 | 3.3 | -5.0 | 0.1 | 13.9 | -21.1 | 27 | 0 | 24 | -3.3 | 35 | 17 | 16 | 8 | 1.4 | 36 | 13.4 | 18 | 74 | 6 | 7.5 | 7.5 | | | | | | | | |
| | HURON | 57 | 993.9 | 1017.8 | 5.0 | -3.9 | 1.0 | 15.6 | -17.2 | 26 | 0 | 21 | -4.4 | 42 | 25 | 27 | 11 | 1.4 | 36 | 13.4 | 18 | 74 | 6 | 7.5 | 7.5 | | | | | | | | |
| | RAPID CITY | 264 | 904.2 | 1017.6 | 5.7 | -4.4 | 1.2 | 18.3 | -16.7 | 25 | 0 | 26 | -5.0 | 28 | 10 | 10 | 10 | 1.4 | 36 | 13.4 | 18 | 74 | 6 | 7.5 | 7.5 | | | | | | | | |
| | STIOUX FALLS | 432 | 964.1 | 1017.0 | 5.0 | 0.0 | 0.3 | 13.3 | -16.1 | 25 | 0 | 24 | -3.9 | 55 | 33 | 33 | 10 | 1.4 | 36 | 13.4 | 18 | 74 | 6 | 7.5 | 7.5 | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TENNESSEE | BRISTOL | 453 | 963.4 | 1018.3 | 13.9 | 2.8 | 0.5 | 21.7 | -12.2 | 24 | 0 | 7 | 2.2 | 34 | 13 | 13 | 3 | 0.2 | 24 | 10.3 | 20 | 73 | 11 | 7.1 | 7.1 | | | | | | | | |
| | CHATTANOOGA | 233 | 993.6 | 1018.6 | 15.0 | 1.7 | 0.3 | 23.3 | -10.6 | 24 | 0 | 10 | 3.3 | 34 | 13 | 13 | 3 | 0.2 | 24 | 10.3 | 20 | 73 | 11 | 7.1 | 7.1 | | | | | | | | |
| | MEMPHIS | 250 | 982.7 | 1018.4 | 14.4 | 3.3 | 0.7 | 22.2 | -10.6 | 24 | 0 | 8 | 2.8 | 36 | 14 | 14 | 3 | 0.2 | 24 | 10.3 | 20 | 73 | 11 | 7.1 | 7.1 | | | | | | | | |
| | NASHVILLE | 177 | 1008.5 | 1018.9 | 15.0 | 4.4 | 0.2 | 24.4 | -9.4 | 24 | 0 | 6 | 2.8 | 56 | 27 | 27 | 7 | 1.3 | 24 | 16.8 | 18 | 74 | 6 | 7.5 | 7.5 | | | | | | | | |
| | OAK RIDGE R | 276 | 996.3 | 1018.2 | 13.9 | 3.3 | 0.3 | 23.3 | -11.1 | 24 | 0 | 8 | 3.3 | 56 | 27 | 27 | 7 | 1.3 | 24 | 16.8 | 18 | 74 | 6 | 7.5 | 7.5 | | | | | | | | |
| TEXAS | ABILENE | 583 | 956.0 | 1018.4 | 19.9 | 2.8 | 1.0 | 28.9 | -5.4 | 24 | 0 | 11 | -1.7 | 34 | 13 | 13 | 3 | 0.2 | 24 | 10.3 | 20 | 73 | 11 | 7.1 | 7.1 | | | | | | | | |
| | AMARILLO | 1274 | 891.3 | 1016.1 | 16.1 | 0.2 | 0.3 | 27.2 | -8.9 | 24 | 0 | 15 | -4.4 | 34 | 13 | 13 | 3 | 0.2 | 24 | 10.3 | 20 | 73 | 11 | 7.1 | 7.1 | | | | | | | | |
| | AUSTIN | 192 | 997.3 | 1019.5 | 21.7 | 12.2 | 0.8 | 27.8 | -3.4 | 24 | 0 | 4 | 3.9 | 34 | 13 | 13 | 3 | 0.2 | 24 | 10.3 | 20 | 73 | 11 | 7.1 | 7.1 | | | | | | | | |
| | BROWNSVILLE | 11 | 1017.6 | 1019.1 | 25.6 | 10.6 | 0.3 | 30.6 | 1.7 | 16 | 0 | 10 | 10.6 | 21 | 11 | 11 | 2 | 0.3 | 28 | 15.6 | 18 | 74 | 6 | 7.5 | 7.5 | | | | | | | | |
| | DALLAS | 147 | 1001.0 | 1018.6 | 18.9 | 7.2 | 0.2 | 28.1 | -3.3 | 24 | 0 | 3 | 3.3 | 34 | 13 | 13 | 3 | 0.2 | 24 | 10.3 | 20 | 73 | 11 | 7.1 | 7.1 | | | | | | | | |
| UTAH | DEL RIO | 118 | 982.7 | 1019.1 | 22.2 | 6.1 | 0.4 | 26.1 | -3.3 | 24 | 0 | 12 | -6.7 | 37 | 14 | 14 | 3 | 0.2 | 24 | 10.3 | 20 | 73 | 11 | 7.1 | 7.1 | | | | | | | | |
| | EL PASO | 124 | 984.5 | 1017.7 | 20.6 | 1.7 | 0.1 | 26.1 | -3.3 | 24 | 0 | 4 | -4.4 | 37 | 14 | 14 | 3 | 0.2 | 24 | 10.3 | 20 | 73 | 11 | 7.1 | 7.1 | | | | | | | | |
| | FORT WORTH | 164 | 998.3 | 1019.1 | 19.4 | 12.4 | 1.3 | 27.2 | -3.3 | 24 | 0 | 13 | -8.3 | 34 | 13 | 13 | 3 | 0.2 | 24 | 10.3 | 20 | 73 | 11 | 7.1 | 7.1 | | | | | | | | |
| | GALVESTON U | 10 | 1016.3 | 1020.0 | 18.9 | 6.7 | 0.3 | 27.2 | -3.3 | 24 | 0 | 13 | -8.3 | 34 | 13 | 13 | 3 | 0.2 | 24 | 10.3 | 20 | 73 | 11 | 7.1 | 7.1 | | | | | | | | |
| | HOUSTON INTERCON | 77 | 966.8 | 1017.2 | 18.1 | 6.7 | 0.4 | 27.2 | -3.3 | 24 | 0 | 13 | -8.3 | 34 | 13 | 13 | 3 | 0.2 | 24 | 10.3 | 20 | 73 | 11 | 7.1 | 7.1 | | | | | | | | |
| VIRGINIA | LOBBACK | 849 | 918.7 | 1017.6 | 21.1 | 2.2 | 0.4 | 28.3 | -3.3 | 24 | 0 | 13 | -8.3 | 34 | 13 | 13 | 3 | 0.2 | 24 | 10.3 | 20 | 73 | 11 | 7.1 | 7.1 | | | | | | | | |
| | MIDLAND | 849 | 918.7 | 1017.6 | 21.1 | 2.2 | 0.4 | 28.3 | -3.3 | 24 | 0 | 13 | -8.3 | 34 | 13 | 13 | 3 | 0.2 | 24 | 10.3 | 20 | 73 | 11 | 7.1 | 7.1 | | | | | | | | |
| | PORT ARTHUR | 48 | 951.2 | 1018.5 | 21.7 | 3.3 | 0.2 | 31.7 | -1.7 | 24 | 0 | 15 | 3.1 | 43 | 14 | 14 | 3 | 0.2 | 24 | 10.3 | 20 | 73 | 11 | 7.1 | 7.1 | | | | | | | | |
| | SAN ANGELO | 240 | 991.5 | 1019.7 | 22.8 | 6.1 | 0.8 | 30.0 | -3.3 | 24 | 0 | 17 | 4.4 | 43 | 14 | 14 | 3 | 0.2 | 24 | 10.3 | 20 | 73 | 11 | 7.1 | 7.1 | | | | | | | | |
| | SAN ANTONIO | 33 | 1015.2 | 1019.5 | 22.8 | 8.3 | 1.5 | 29.4 | -2.8 | 24 | 0 | 3 | 8.3 | 43 | 14 | 14 | 3 | 0.2 | 24 | 10.3 | 20 | 73 | 11 | 7.1 | 7.1 | | | | | | | | |
| WASHINGTON | VICTORIA | 83 | 1015.2 | 1019.5 | 22.8 | 8.3 | 1.5 | 29.4 | -2.8 | 24 | 0 | 3 | 8.3 | 43 | 14 | 14 | 3 | 0.2 | 24 | 10.3 | 20 | 73 | 11 | 7.1 | 7.1 | | | | | | | | |
| | WACO | 113 | 1005.7 | 1019.1 | 20.6 | 6.1 | 0.5 | 27.2 | -3.3 | 24 | 0 | 4 | -4.4 | 43 | 14 | 14 | 3 | 0.2 | 24 | 10.3 | 20 | 73 | 11 | 7.1 | 7.1 | | | | | | | | |
| | WICHITA FALLS | 333 | 980.7 | 1018.1 | 17.8 | 1.1 | 0.9 | 28.3 | -8.3 | 24 | 0 | 14 | -6.6 | 43 | 14 | 14 | 3 | 0.2 | 24 | 10.3 | 20 | 73 | 11 | 7.1 | 7.1 | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| WASHINGTON | OLYMPIA | 69 | 1006.4 | 1013.9 | 10.6 | 1.1 | 0.8 | 20.6 | -6.1 | 29 | 0 | 14 | -3.9 | 184 | 1 | 1 | 1 | 2.0 | 14.3 | 30 | 74 | 6 | 7.5 | 7.5 | | | | | | | | | |
| | OLYMPIA | 69 | 1006.4 | 1013.9 | 10.6 | 1.1 | 0.8 | 20.6 | -6.1 | 29 | 0 | 14 | -3.9 | 184 | 1 | 1 | 1 | 2.0 | 14.3 | 30 | 74 | 6 | 7.5 | 7.5 | | | | | | | | | |
| | QUILLAYUTE | 1005.1 | 1013.9 | 10.6 | 1.1 | 0.8 | 0.8 | 20.6 | -6.1 | 29 | 0 | 14 | -3.9 | 184 | 1 | 1 | 1 | 2.0 | 14.3 | 30 | 74 | 6 | 7.5 | 7.5 | | | | | | | | | |
| | SEATTLE TACOMA | 147 | 997.3 | 1013.7 | 11.1 | 5.0 | 1.4 | 22.2 | -2.8 | 22 | 0 | 5 | -2.2 | 70 | 32 | 32 | 10 | 1.8 | 13.0 | 30 | 74 | 6 | 7.5 | 7.5 | | | | | | | | | |
| | TACOMA | 74 | 993.3 | 1016.0 | 6.1 | -1.1 | 2.2 | 0.2 | 15.6 | -3.3 | 22 | 0 | 20 | -1.7 | 79 | 32 | 32 | 1.8 | 13.0 | 30 | 74 | 6 | 7.5 | 7.5 | | | | | | | | | |

See footnotes at end of table

CLIMATOLOGICAL DATA

METRIC UNITS

| State and Station | Elevation (ground) | Pressure | | Temperature | | | | | | | | | | Precipitation | | | | Wind | | | No. of days
sunrise to
sunset | Sky cover, tenths | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------|--------------------|--------------|-----------|-----------------|---|-----------------|---|-----------------------|---|---------|---|--------|---|---------------|---|--|---|-------------------|---|---------------------------|-------------------------------------|-------------------|-------------|-----------------------------|----------------------------|-----------------------|---------------------------|-------------|----------------------------------|------------------------|---------------------|--------------|---|------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Station
Q | Sea level | Average maximum | | Average minimum | | Departure from normal | | Highest | | Lowest | | Date | | No. of days
Max 32° C or above
Min 0° C or lower | | Average dew point | | Average relative humidity | | | Total
mm | Departure from normal
mm | Greatest in 24 hours
mm | 25 mm or more
days | With thunderstorm
days | Total
mm | Maximum depth
on ground
mm | Resultant speed
Mps | Resultant direction | Speed
Mps | Direction
Fastest mile
in 10 kilometers | Date | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | | | | | | | | | | | | | | | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F |

Data from airport unless otherwise specified. U indicates Urban, R indicates Rural, S indicates.

Precipitation data in column headed "Greatest in 24 hours" are computed on a 24-hour basis without regard to calendar day - data may include precipitation with a measurable amount from the last day of the previous month or the first day of the following month.

Wind directions under resultant direction are in tens of degrees.

Value entered in column "Fastest Mile" is the highest observed 1-minute wind speed when the direction is in tens of degrees. These stations are not equipped with a recording anemometer from which "Fastest Mile" data can be evaluated.

B Number of days maximum 21.1°C. or above for Alaskan Stations.

Y Peak Gust

* And also on an earlier date or dates.

Ø Station pressures apply to elevations shown in the "Elevations - Station Pressure" table of the annual issue of this publication.

Data in this table are obtained by conversion from data in the English Units table.

V Sun below horizon November 19 - 30, inclusive.

X Sun below horizon November 24 - 30, inclusive.

(Base 65°F.)

- 571 -

(Base 65°F.)

- 572 -

| State and station | Current season | | Normals January through this month | State and station | Current season | | Normals January through this month | State and station | Current season | | Normals January through this month | State and station | Current season | | Normals January through this month |
|-------------------|----------------|-----------------------------------|------------------------------------|-------------------|----------------|-----------------------------------|------------------------------------|---------------------|----------------|-----------------------------------|------------------------------------|-------------------|----------------|-----------------------------------|------------------------------------|
| | This month | Period January through this month | | | This month | Period January through this month | | | This month | Period January through this month | | | This month | Period January through this month | |
| ALABAMA | | | | HAWAII | | | | NEBRASKA | | | | SOUTH DAKOTA | | | |
| ALBUQUERQUE | | 2033 | | HILLO | 276 | 2870 | | NORTH PLATTE | | 944 | | ABERDEEN | 0 | 773 | |
| ALBUQUERQUE | | 2033 | | HONOLULU | 332 | 4607 | | OMAHA | 0 | 1405 | | ALBANY | 0 | 900 | |
| ALBUQUERQUE | | 2033 | | KAMULUI | 322 | 3756 | | SCOTT'S BLUFF | 0 | 660 | | RAPID CITY | 0 | 713 | |
| ALBUQUERQUE | | 2033 | | LIHUE | 320 | 3965 | | VALENTINE | 0 | 994 | | STOUX FALLS | 0 | 863 | |
| ALBUQUERQUE | | 2033 | | | | | | | | | | | | | |
| ALBUQUERQUE | | 2033 | | IDAHO | | | | NEVADA | | | | TENNESSEE | | | |
| ALBUQUERQUE | | 2033 | | BOISE | | 953 | | ELKO | 0 | 278 | | BRISTOL | 0 | 1356 | |
| ALBUQUERQUE | | 2033 | | LEWISTON | | 932 | | ELY | 0 | 230 | | HATTANODGA | 0 | 1758 | |
| ALBUQUERQUE | | 2033 | | POCATELLO | | 922 | | LAS VEGAS | 0 | 2944 | | KNOXVILLE | 0 | 1416 | |
| ALBUQUERQUE | | 2033 | | | | | | RENO | 0 | 479 | | MEMPHIS | 6 | 2162 | |
| ALBUQUERQUE | | 2033 | | ILLINOIS | | | | WINNEMUCCA | 0 | 496 | | NASHVILLE | 1 | 1731 | |
| ALBUQUERQUE | | 2033 | | CAIRO U | 0 | 1901 | | | | | | OAK RIDGE R | 0 | 1444 | |
| ALBUQUERQUE | | 2033 | | CHICAGO O HARE | 0 | 959 | | NEW HAMPSHIRE | | | | | | | |
| ALBUQUERQUE | | 2033 | | CHICAGO MIDWAY | 0 | 1163 | | CONCORD | 0 | 489 | | TEXAS | | | |
| ALBUQUERQUE | | 2033 | | MOBILE | 0 | 1066 | | MT WASHINGTON OBS | 0 | 1 | | ABILENE | 0 | 2466 | |
| ALBUQUERQUE | | 2033 | | PEORIA | 0 | 972 | | | | | | AMARILLO | 0 | 1713 | |
| ALBUQUERQUE | | 2033 | | ROCKFORD | 0 | 806 | | NEW JERSEY | | | | AUSTIN | 22 | 2701 | |
| ALBUQUERQUE | | 2033 | | SPRINGFIELD | 0 | 1232 | | ATLANTIC CITY | 0 | 970 | | BROWNSVILLE | 128 | 3684 | |
| ALBUQUERQUE | | 2033 | | | | | | ATLANTIC CITY U | 0 | 982 | | CORPUS CHRISTI | 89 | 3137 | |
| ALBUQUERQUE | | 2033 | | INDIANA | | | | NEWARK | 0 | 144 | | DALLAS | 26 | 2588 | |
| ALBUQUERQUE | | 2033 | | EVANSVILLE | 0 | 1394 | | TRENTON U | 0 | 1202 | | DEL RIO | 11 | 2848 | |
| ALBUQUERQUE | | 2033 | | FORT WAYNE | 0 | 962 | | NEW MEXICO | | | | EL PASO | 0 | 2183 | |
| ALBUQUERQUE | | 2033 | | INDIANAPOLIS | 0 | 1167 | | ALBUQUERQUE | 0 | 1362 | | FORT WORTH | 12 | 2573 | |
| ALBUQUERQUE | | 2033 | | SOUTH BEND | 0 | 752 | | CLAYTON | 0 | 863 | | GALVESTON U | 36 | 2770 | |
| ALBUQUERQUE | | 2033 | | | | | | ROSWELL | 0 | 1620 | | HOUSTON INTERCON | 38 | 2535 | |
| ALBUQUERQUE | | 2033 | | IOWA | | | | | | | | LUBBOCK | 2 | 1747 | |
| ALBUQUERQUE | | 2033 | | BURLINGTON | 0 | 988 | | NEW YORK | | | | MIDLAND | 0 | 2000 | |
| ALBUQUERQUE | | 2033 | | DES MOINES | 0 | 1191 | | ALBANY | 0 | 630 | | PORT ARTHUR | 49 | 3078 | |
| ALBUQUERQUE | | 2033 | | DUBUQUE | 0 | 748 | | BINGHAMTON | 0 | 373 | | SAN ANGELO | 10 | 2576 | |
| ALBUQUERQUE | | 2033 | | SIOUX CITY | 0 | 1168 | | BUFFALO | 0 | 599 | | SAN ANTONIO | 40 | 2910 | |
| ALBUQUERQUE | | 2033 | | WATERLOO | 0 | 800 | | NEW YORK | 0 | 1304 | | VICTORIA | 55 | 2878 | |
| ALBUQUERQUE | | 2033 | | | | | | NEW YORK KENNEDY | 0 | 1176 | | WACO | 20 | 2857 | |
| ALBUQUERQUE | | 2033 | | CONCORDIA | 0 | 1551 | | NEW YORK LA GUARDIA | 0 | 1236 | | WICHITA FALLS | 3 | 2467 | |
| ALBUQUERQUE | | 2033 | | DES MOINES CITY | 0 | 1710 | | ROCHESTER | 0 | 704 | | | | | |
| ALBUQUERQUE | | 2033 | | GOODLAND | 0 | 1101 | | SYRACUSE | 0 | 445 | | UTAH | | | |

STORM SUMMARY

NOVEMBER 1970

| STATE | TORNADOES | | | | | HAILSTORMS | | | | WINDSTORMS | | | | LIGHTNING | | | | # HEAVY SNOWSTORMS
AND BLIZZARDS | | | | # ICE STORMS | | | | Ø ALL OTHER | | | | | |
|--------------------|-----------|------|--------|----------|--------|------------|----------|--------------|-------|------------|----------|--------------|-------|-----------|----------|--------------|-------|-------------------------------------|----------|--------------|-------|--------------|----------|--------|---|-------------|----------|--------|---|---|---|
| | NUMBER | DAYS | DEATHS | INJURIES | DAMAGE | DEATHS | INJURIES | DAMAGE | | DEATHS | INJURIES | DAMAGE | | DEATHS | INJURIES | DAMAGE | | DEATHS | INJURIES | DAMAGE | | DEATHS | INJURIES | DAMAGE | | DEATHS | INJURIES | DAMAGE | | | |
| | | | | | | | | PROP
ERTY | CROPS | | | PROP
ERTY | CROPS | | | PROP
ERTY | CROPS | | | PROP
ERTY | CROPS | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Alabama | | | | | | | | | | 0 | 0 | 4 | 4 | | | | | | | 0 | 0 | 4 | 0 | | | | | 1 | 0 | 3 | 1 |
| Alaska | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Arizona * | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Arkansas | 4 | 1 | 0 | 30 | 5 | | | | | | | 4 | | | | | | | | | | | | | | | | | | | |
| California | | | | | | | | | | | | | | | | | | | | | | | | | | | 3 | 0 | 6 | 0 | |
| Colorado | | | | | | | | | | 0 | 0 | 5 | 0 | | | | | | | | | | | | | | | | | | |
| Connecticut * | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Delaware * | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Florida * | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Georgia * | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hawaii | | | | | | | | | | | | | | 0 | 0 | 5 | 0 | | | | | | | | | | 0 | 0 | 5 | 0 | |
| Idaho | | | | | | 0 | 0 | 1 | | 0 | 0 | 4 | | 0 | 0 | 4 | | 0 | 0 | 3 | | | | | | | | | | | |
| Illinois | | | | | | | | | | 0 | 0 | 3 | 0 | | | | | | | | | | | | | | | | | | |
| Indiana | 1 | 1 | 0 | 2 | 4 | | | | | 0 | 0 | 4 | 0 | | | | | | | | | | | | | | | | | | |
| Iowa * | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kansas | 1 | 1 | 0 | 0 | 4 | 0 | 0 | 4 | 4 | | | | | | | | | | | | | | | | | | | | | | |
| Kentucky | 1 | 1 | 0 | 0 | ? | 0 | 0 | ? | ? | 0 | 19 | 6 | 0 | 0 | 0 | 5 | 0 | | | | | | | | | | | | | ? | |
| Louisiana * | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Maine | | | | | | | | | | | 0 | 0 | 4 | 0 | | | | | | | | | | | | | | | | | |
| Maryland | | | | | | | | | | | | | | 0 | 1 | 4 | 0 | | | | | | | | | | | | | | |
| Massachusetts | | | | | | | | | | | 0 | 0 | 4 | 0 | | | | | | | | | | | | | | 0 | 0 | 4 | 0 |
| Michigan | | | | | | | | | | | 2 | 1 | 5 | 0 | | | | | | | | | | | | | | | | | |
| Minnesota * | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mississippi | | | | | | | | | | | 0 | 4 | 4 | 0 | | | | | | | | | | | | | | 0 | 0 | ? | 0 |
| Missouri | | | | | | | | | | | 1 | 0 | 4 | 0 | | | | | | | | | | | | | | | | | |
| Montana | | | | | | | | | | | 0 | 0 | ? | 0 | | | | 0 | 0 | ? | 0 | | | | | | | 2 | 0 | 0 | 0 |
| Nebraska * | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nevada * | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| New Hampshire | | | | | | | | | | | 0 | 0 | 4 | 0 | | | | | | | | | | | | | | | | | |
| New Jersey | 1 | 1 | | | 5 | | | 4 | 3 | | | 4 | | | | 4 | | | | | | | | | | | | 3 | | | |
| New Mexico * | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| New York | | | | | | | | | | 1 | 1 | 4 | | | | | | | | | | | | | | | | | | | |
| North Carolina | | | | | | 0 | 0 | 0 | 4 | 1 | 0 | 4 | 0 | 0 | 0 | 3 | 0 | | | | | | | | | | | | | | |
| North Dakota * | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ohio | | | | | | | | | | | 1 | 4 | | | | | ? | | 1 | 0 | ? | | | | | | | | | | |
| Oklahoma * | | | | | | | | | | | | | | | | | | 0 | 0 | 4 | 0 | 0 | 0 | 5 | 0 | | | | | | |
| Oregon | | | | | | | | | | | 0 | 0 | 4 | 0 | | | | 0 | 0 | 4 | 0 | 0 | 0 | | | | | | | | |
| Pacific Area * | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pennsylvania | | | | | | | | | | | 0 | 0 | 4 | 0 | 0 | 0 | 4 | 0 | | | | | | | | | 0 | 0 | 5 | 3 | |
| Puerto Rico | | | | | | | | | | | | | | | | | | | | | | | | | | | 0 | 0 | 4 | C | |
| Rhode Island * | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| South Carolina | | | | | | | | | | | 0 | 0 | 4 | 0 | | | | | | | | | | | | | 1 | 0 | 2 | 2 | |
| South Dakota * | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tennessee | 1 | 1 | 0 | 1 | 4 | | | | | | 0 | 0 | 4 | 0 | 0 | 0 | 4 | 0 | | | | | | | | | | | | | |
| Texas | | | | | | | | | | 1 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | | | | | | | | | | | | | | |
| Utah * | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Vermont * | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| U. S. Virgin Is. * | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Virginia * | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Washington | 1 | 1 | | | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| West Virginia | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Wisconsin | | | | | | | | | | | 0 | 0 | 6 | 0 | | | | | | | | | | | | | | | | | |
| Wyoming * | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

- * Includes crop damage
- C Crop damage
- * No occurrence of storms or unusual weather phenomena reported.
- # Includes heavy sleet storm
- # Freezing drizzle and freezing rain, commonly known as glaze
- Ø For breakdown of "All Others", and for detailed listing of other storms. see the Environmental Data Service, NOAA, monthly publication STORM DATA.

† Storm damages are placed in categories varying from 1 to 9 as follows:

- 1 Less than \$50
- 2 \$50 to \$500
- 3 \$500 to \$5,000
- 4 \$5,000 to \$50,000
- 5 \$50,000 to \$500,000
- 6 \$500,000 to \$5,000,000
- 7 \$5,000,000 to \$50,000,000
- 8 \$50,000,000 to \$500,000,000
- 9 \$500,000,000 to \$5,000,000,000

GENERAL SUMMARY OF RIVER AND FLOOD CONDITIONS

NOVEMBER 1970

Elmer R. Nelson, Office of Hydrology

Damaging flash floods occurred during November in south-central Pennsylvania. Significant damage resulted along the Frankstown Branch in Blair County and Raystown Branch in Bedford County. At least \$100,000 in damage was reported to private property; state, county and townships roads; and bridges.

Heavy rain in southern California caused flooding and mud slides in some foothill and canyon areas. Several autos were damaged by flood waters and a few homes on low ground were inundated by mud and water. Three deaths resulted from drowning.

ST. LAWRENCE DRAINAGE

Lake Ontario.--Moderate to heavy rains over the Genessee Basin on the 12-13th caused flooding on creeks above Mt. Morris Reservoir. Canaseraga Creek at Groveland, N. Y., rose over one foot above flood stage on the 15th. Route 258 in the lower Canaseraga Creek Valley was closed to traffic during the period of flooding and 10 days thereafter, due to lack of proper drainage following the lower stream levels. Little or no damage was noted from the flooding on Oatka Creek at Garbutt, N. Y., and Black Creek at Churchville, N. Y., between the 15th and 17th.

ATLANTIC SLOPE DRAINAGE

Heavy rainfall over the Susquehanna River Basin in south-central Pennsylvania during mid-November caused extensive damage from flash flooding in several areas. The most significant damage from flash flooding occurred along the Frankstown Branch in Blair County and the Raystown Branch in Bedford County. A torrential downpour resulted in flooding of streets, county roads and numerous basements in the area of Saxton, Imber, Frankstown, and East Freedom in south-central Pennsylvania. Preliminary estimates of damage as furnished by the Pennsylvania Civil Defense Agency in conjunction with the American Red Cross, indicate at least \$100,000 in damage to private property; state, county and township roads; and bridges. There were no fatalities, but numerous families were evacuated from their mobile homes at Saxton, Pa. The State Department of Health had to establish special stations in the Claysburg, East Freedom and Frankstown area to test wells for water purity and provide assistance in sterilizing wells that had been flooded in the Juniata Basin. The most serious damage to homes was basement flooding and the resultant damage to heating systems. Schools in the area were without heat and classes had to be cancelled for the day.

Flash flooding occurred over northern Virginia, eastern West Virginia and Maryland on the 12th. Rises of 10 to 15 feet were observed on Opequan Creek in West Virginia. In the Winchester, Va., area, many roads were impassable. Several streams in central Maryland and southern Pennsylvania were reported out of their banks. Warning stages were reached and exceeded on the Shenandoah and Rappahannock Rivers. In the Martinsburg, W. Va., area some basements were flooded and some weekend camp trailers and cars were washed away. Some flooding occurred in the Cumberland, Md., area on the 14th.

Heavy rains towards the end of October caused minor flooding on the Dan River at Danville, Va., on the 1st. No damage resulted from the light flooding.

Rainfall during the first four days of the month caused flooding on the Lumber River at Lumberton, N. C., on the 8-11th. The highest stage observed was

0.7 foot above flood stage. Flooding was confined mainly to swamplands and a few low approach roads. Minor lowland flooding occurred on the Congaree River at Columbia, S. C. The Pee Dee River at Cheraw, S. C., rose a little over the warning stage of 20 ft. on the 1st. Although 10 ft. below flood stage, considerable swampland timber and lowlands below Cheraw, S. C., were flooded. The flooding on the Broad River at Blair, S. C., on Oct. 31 to Nov. 1 was due to rainfall during the last 3 days of October. Only minor flooding of pastures occurred at and below Blair, S. C. Losses were due mainly to forced halting of logging operations in swamps of the Pee Dee from below Cheraw, S. C., to Peedee, S. C.

MISSISSIPPI SYSTEM

Upper Mississippi Basin.--Rainfall during the last 8 days of October and the first 11 days of November was excessive over much of the Upper Mississippi Basin upstream from Minneapolis, Minn. Runoff was reduced due to the lack of rainfall during August and September. Rises occurred along most rivers and streams, but crests were all below bankfull.

Total precipitation for the months of October and November exceeded all time records for many locations over the Minnesota River basin and the Upper Mississippi Basin upstream from Minneapolis. Combined totals ranged from 8.5 to over 11 inches. The total of 8.79 inches for Minneapolis, Minn., was a new record. The previous record was 8.02 inches for October through November 1934 (normal, 2.99 inches).

During the period of the 20th through the 25th, the formation of pan and frazil ice along the Mississippi River between Lock and Dam 5 A, Winona, Minn., downstream through La Crescent, Minn., (L&D 7) was the worst of record. It compared with ice conditions that occurred in 1951, the worst year of record since the locks were in operation. In the pool of Lock and Dam 6, barges picked up so much pan and frazil ice that they grounded themselves on the 24th and 25th. The Corps of Engineers had to impound water to help the tugs free their barges. Roller gates were opened wide to flush ice even though considerable scour resulted. Temperatures moderated during the last few days of the month allowing the river to return to normal.

Missouri Basin.--Snow depths at the end of November ranged from a trace or none in northern Nebraska to 5 to 7 inches in northwest and north-central South Dakota. Frost depth was up to 2 ft., with the top few inches alternately thawing and freezing. Small rivers and creeks were generally frozen over and larger rivers had floating ice when the month ended.

Ohio Basin.--The flooding on the French Broad River at Blantyre, N. C., from Oct. 30 to Nov. 1 was due to heavy rainfall during the last few days of October. The rainfall ranged from 4 to 6 inches over much of the basin upstream from Asheville. The French Broad River rose to within 1 foot of bankfull stage at Rosman, N. C., while downstream at Blantyre, the river rose 0.5 foot above flood stage. Mostly minor rises occurred downstream to the Tennessee line.

White Basin.--Minor flooding occurred on the Cache River at Patterson, Ark., during November. The river was above flood stage from Oct. 28 to Nov. 13. Rains over the basin on the 9th caused another slow rise to flood stage on the 15th. The river at Patterson remained above flood stage until Dec. 2. Damage from

GENERAL SUMMARY OF RIVER AND FLOOD CONDITIONS-Continued

NOVEMBER 1970

the flooding was minor.

WEST GULF OF MEXICO DRAINAGE

The Sabine River at Mineola, Tex., continued above flood stage from Oct. 27 to Nov. 3. No damage resulted from the 1.5 ft. of flooding.

The San Jacinto River at Lake Houston, Tex., continued above the elevation of the spillway from Oct. 5 through Nov. 4. It crested 0.7 foot above the spillway on Oct. 28.

PACIFIC SLOPE DRAINAGE

Southern California.--The first appreciable rain of the 1970-71 season occurred in southern California on the 25th bringing about 0.5 to 0.75 inch of rain to the Los Angeles Basin and 1.5 to 2 inches over mountain areas, falling gently with a minimum of run-off. A second storm of much greater intensity and duration occurred between mid-day of the 28th and early on the 30th. Three to 6 inch storm totals occurred in the coastal areas of Santa Barbara, Ventura and Los Angeles Counties. It ranged near 6 inches in the mountains of Santa Barbara and Ventura Counties, increasing to 8 to 10 inches in the San Gabriel Mountains of Los Angeles County with the greatest storm total, 15.23 inches, at Red Box (3 miles NW of Mt. Wilson). San Bernardino mountain areas received from 3 to 6 inches for the storm, and near 3 inches fell in the foothills and in western San Bernardino County, but amounts decreased rapidly to 1 to 2 inches in Riverside County. San Diego County storm totals ranged from 1 to 2 inches in the coastal areas, 3 to 4 inches over the mountains and 0.25 to 0.5 inch in the desert. Orange

County received mostly 2 to 3 inch storm totals. Rainfall intensities varied from light to heavy, but much of the rain fell at a moderate rate. The soil, dry for many months prior to the storm, readily absorbed moisture and helped to reduce run-off.

Some foothill and canyon areas were damaged by flooding and mud slides, especially those in burned-over areas. Some street flooding and inundation occurred. Several autos were damaged by flood waters and a few homes on low ground were inundated by mud and water. Three deaths were directly attributable to the storm. A woman and child were swept away and drowned in Gold Creek north of Tujunga, Calif., and a man was drowned in Devil's Canyon on the 29th.

Northern California.--Minor flooding occurred in the upper Sacramento Basin on the 28th due to small stream overflow. Flooding was very localized and no damage was reported.

A significant rise occurred on the Sacramento River towards the end of the month. The first overflow of the season occurred at Moulton, Colusa and Tisdale Weirs into the Sutter bypass area on the 30th.

Minor flooding occurred on the Smith River at Fort Dick and Crescent City, Oreg., on the 24th. The light overflow was due to heavy rain which began on the morning of the 22d, and continued to noon on the 24th. The rainfall during this period averaged about 11 inches. A new 24-hour record of rainfall of 6.43 inches was set at Gasquet Ranger Station, Oreg., on the 23d-24th. The previous record was 6.35 inches recorded on Dec. 21-22, 1964. Damage due to the flooding was minor and limited to the lower reaches of the river.

FLOOD STAGE DATA

(All dates in November unless otherwise specified)

NOVEMBER 1970

| River and station | Flood stage | Above flood stages -dates | | Crest * | |
|----------------------------------|-------------|---------------------------|------|------------|---------|
| | | From-- | To-- | Stage | Date |
| | <i>Ft.</i> | | | <i>Ft.</i> | |
| ST. LAWRENCE DRAINAGE | | | | | |
| Lake Ontario | | | | | |
| Catskill Creek: Groveland, N. Y. | 11 | 15 | 15 | 12.1 | 15 |
| Oatka Creek: Groveland, N. Y. | 5 | 17 | 16 | 5.2 | 16 |
| Black Creek: Churchville, N. Y. | 5 | 15 | 17 | 5.5 | 16 |
| ATLANTIC SLOPE DRAINAGE | | | | | |
| Dan: Danville, Va. | 11 | 1 | 1 | 11.1 | 1 |
| Lanter: Landmont, N. C. | 9 | 8 | 11 | 9.7 | 9 |
| Broad: Blair, S. C. | 14 | Oct. 31 | 1 | 15.2 | 1 |
| MISSISSIPPI SYSTEM | | | | | |
| Ohio Basin | | | | | |
| French Broad: Blantyre, N. C. | 17 | Oct. 31 | 1 | 17.5 | Oct. 31 |

| River and station | Flood stage | Above flood stages -dates | | Crest * | |
|---------------------------------|-------------|---------------------------|--------|------------|---------|
| | | From-- | To-- | Stage | Date |
| | <i>Ft.</i> | | | <i>Ft.</i> | |
| MISSISSIPPI SYSTEM | | | | | |
| White Basin | | | | | |
| Cache: Patterson, Ark. | 7 | Oct. 15 | 28 | 8.2 | 1 |
| | | | Dec. 2 | 7.8 | 20 |
| WEST GULF OF MEXICO DRAINAGE | | | | | |
| Sabine: Mineola, Tex. | 14 | Oct. 27 | | 15.5 | Oct. 31 |
| San Jacinto: Lake Houston, Tex. | 44.5 | Oct. 25 | 4 | 45.2 | Oct. 28 |
| PACIFIC SLOPE DRAINAGE | | | | | |
| Smith River: Fort Dick, Oreg. | 33 | 24 | 24 | 33.2 | 24 |
| Crescent City, Oreg. | | 24 | 24 | 33.1 | 24 |
| * Provisional | | | | | |
| # Highest stage observed | | | | | |

RAWINSONDE DATA

Average monthly values

November 1970

| ALBANY, N. Y.
1008 MB | | | | | | | | | | ALBUQUERQUE, N. MEX.
840 MB | | | | | | | | | | ANARILLO, TEXAS
892 MB | | | | | | | | | | ANCHORAGE, ALASKA
1009 MB | | | | | | | | | | ANNETTE, ALASKA
1008 MB | | | | | | | | | | | | | | | | | |
|-----------------------------------|--|--------------------|--|----------------|--|-------------|--|-----------|--|--------------------------------|--|--------------------|--|----------------|--|-------------|--|-----------|--|---------------------------|--|--------------------|--|----------------|--|-------------|--|-----------|--|------------------------------|--|--------------------|--|----------------|--|-------------|--|-----------|--|----------------------------|--|--------------------|--|----------------|--|-------------|--|-----------|--|-------------------|--|------|--|-----|--|-----|--|
| Standard pressure
surface (mb) | | No of observations | | Dynamic height | | Temperature | | Dew Point | | Resultant
Wind | | No of observations | | Dynamic height | | Temperature | | Dew Point | | Resultant
Wind | | No of observations | | Dynamic height | | Temperature | | Dew Point | | Resultant
Wind | | No of observations | | Dynamic height | | Temperature | | Dew Point | | Resultant
Wind | | No of observations | | Dynamic height | | Temperature | | Dew Point | | Resultant
Wind | | | | | | | |
| SURFACE | | 30 | | 86 | | 3.1 | | -6 | | 26 | | 1,619 | | 2.2 | | -7.4 | | 05 | | 1,4 | | 30 | | 1,095 | | 2.2 | | -6.4 | | 29 | | 2.3 | | 30 | | 45 | | -3.4 | | -6.7 | | 03 | | 1,7 | | 30 | | 37 | | 3.5 | | -4.2 | | 06 | | 1.5 | |
| 1000 | | 30 | | 167 | | 1.4 | | 1.3 | | 29 | | 1,187 | | 1.4 | | 1.3 | | 29 | | 1,4 | | 30 | | 1,095 | | 2.2 | | -6.4 | | 29 | | 2.3 | | 30 | | 114 | | -0.2 | | 02 | | 2,0 | | 30 | | 101 | | 09 | | 1.7 | | | | | | | |
| 950 | | 30 | | 564 | | 2.8 | | -2 | | 23 | | 1,9 | | 613 | | 1.5 | | 23 | | 1,9 | | 30 | | 1,578 | | 1.5 | | 1.5 | | 29 | | 2.3 | | 30 | | 521 | | -2.7 | | -7.9 | | 36 | | 2,4 | | 30 | | 517 | | 1.6 | | -4.5 | | 1.3 | | | |
| 900 | | 30 | | 1,001 | | 1.4 | | -3.0 | | 26 | | 1,058 | | 1.5 | | 1.5 | | 26 | | 1,058 | | 30 | | 1,019 | | 1.5 | | 1.5 | | 29 | | 2.3 | | 30 | | 949 | | -3.4 | | -9.6 | | 01 | | 1,1 | | 30 | | 950 | | -1.2 | | -6.9 | | 1.5 | | | |
| 850 | | 30 | | 1,460 | | 1.1 | | -6.8 | | 26 | | 1,524 | | 1.1 | | 1.1 | | 26 | | 1,524 | | 30 | | 1,019 | | 1.5 | | 1.5 | | 29 | | 2.3 | | 30 | | 1,400 | | -5.8 | | -10.8 | | 01 | | 2,3 | | 1,404 | | -3.7 | | -10.7 | | 1.5 | | | | | |
| 800 | | 30 | | 1,945 | | -1.5 | | -8.7 | | 26 | | 2,017 | | -1.5 | | -1.5 | | 26 | | 2,017 | | 30 | | 1,019 | | 1.5 | | 1.5 | | 29 | | 2.3 | | 30 | | 2,372 | | -10.7 | | -19.8 | | 27 | | 7,2 | | 2,381 | | -8.2 | | -12.6 | | 1.5 | | | | | |
| 750 | | 30 | | 2,458 | | -3.6 | | -12.3 | | 25 | | 2,541 | | -3.6 | | -3.6 | | 25 | | 2,541 | | 30 | | 1,019 | | 1.5 | | 1.5 | | 29 | | 2.3 | | 30 | | 2,699 | | -14.0 | | -19.5 | | 29 | | 2,6 | | 2,915 | | -11.9 | | -20.7 | | 21 | | | | | |
| 700 | | 30 | | 3,001 | | -6.0 | | -15.0 | | 25 | | 3,095 | | -6.0 | | -6.0 | | 25 | | 3,095 | | 30 | | 1,019 | | 1.5 | | 1.5 | | 29 | | 2.3 | | 30 | | 3,459 | | -17.0 | | -24.0 | | 29 | | 4,5 | | 3,479 | | -15.6 | | -24.0 | | 23 | | | | | |
| 650 | | 30 | | 3,578 | | -8.6 | | -17.3 | | 25 | | 3,683 | | -8.6 | | -8.6 | | 25 | | 3,683 | | 30 | | 1,019 | | 1.5 | | 1.5 | | 29 | | 2.3 | | 30 | | 4,056 | | -20.2 | | -27.9 | | 29 | | 5,9 | | 4,079 | | -19.0 | | -28.2 | | 24 | | | | | |
| 600 | | 30 | | 4,194 | | -12.4 | | -20.8 | | 26 | | 4,314 | | -12.4 | | -12.4 | | 26 | | 4,314 | | 30 | | 1,019 | | 1.5 | | 1.5 | | 29 | | 2.3 | | 30 | | 4,697 | | -23.6 | | -30.7 | | 29 | | 7,8 | | 4,721 | | -23.2 | | -32.0 | | 25 | | | | | |
| 550 | | 30 | | 4,854 | | -16.7 | | -25.1 | | 25 | | 4,989 | | -16.7 | | -16.7 | | 25 | | 4,989 | | 30 | | 1,019 | | 1.5 | | 1.5 | | 29 | | 2.3 | | 30 | | 5,287 | | -28.0 | | -33.6 | | 29 | | 10,5 | | 5,413 | | -27.9 | | -36.5 | | 25 | | | | | |
| 500 | | 30 | | 5,564 | | -21.3 | | -30.4 | | 25 | | 5,716 | | -21.3 | | -21.3 | | 25 | | 5,716 | | 30 | | 1,019 | | 1.5 | | 1.5 | | 29 | | 2.3 | | 30 | | 5,637 | | -31.2 | | -38.1 | | 29 | | 12,2 | | 6,132 | | -33.9 | | -39.9 | | 25 | | | | | |
| 450 | | 30 | | 6,333 | | -26.3 | | -35.3 | | 25 | | 6,504 | | -26.3 | | -26.3 | | 25 | | 6,504 | | 30 | | 1,019 | | 1.5 | | 1.5 | | 29 | | 2.3 | | 30 | | 6,958 | | -38.0 | | -41.9 | | 30 | | 11,9 | | 6,981 | | -38.6 | | -42.6 | | 26 | | | | | |
| 400 | | 30 | | 7,175 | | -32.4 | | -41.2 | | 26 | | 7,304 | | -32.4 | | -32.4 | | 26 | | 7,304 | | 30 | | 1,019 | | 1.5 | | 1.5 | | 29 | | 2.3 | | 30 | | 7,868 | | -43.8 | | -42.8 | | 30 | | 13,9 | | 7,890 | | -44.0 | | -45.7 | | 27 | | | | | |
| 350 | | 30 | | 8,105 | | -39.3 | | -47.1 | | 25 | | 8,317 | | -39.3 | | -39.3 | | 25 | | 8,317 | | 30 | | 1,019 | | 1.5 | | 1.5 | | 29 | | 2.3 | | 30 | | 8,887 | | -49.9 | | -49.9 | | 30 | | 13,3 | | 8,909 | | -49.4 | | -49.4 | | 27 | | | | | |
| 300 | | 30 | | 9,174 | | -46.4 | | -54.2 | | 26 | | 9,401 | | -46.4 | | -46.4 | | 26 | | 9,401 | | 30 | | 1,019 | | 1.5 | | 1.5 | | 29 | | 2.3 | | 30 | | 9,910 | | -53.7 | | -53.7 | | 29 | | 14,9 | | 9,932 | | -53.7 | | -53.7 | | 27 | | | | | |
| 250 | | 30 | | 9,934 | | -47.2 | | -54.8 | | 26 | | 10,134 | | -47.2 | | -47.2 | | 26 | | 10,134 | | 30 | | 1,019 | | 1.5 | | 1.5 | | 29 | | 2.3 | | 30 | | 10,687 | | -53.7 | | -53.7 | | 29 | | 15,3 | | 10,709 | | -53.7 | | -53.7 | | 27 | | | | | |
| 200 | | 30 | | 10,323 | | -53.8 | | -60.6 | | 26 | | 10,588 | | -53.8 | | -53.8 | | 26 | | 10,588 | | 30 | | 1,019 | | 1.5 | | 1.5 | | 29 | | 2.3 | | 30 | | 11,504 | | -52.5 | | -52.5 | | 29 | | 19,1 | | 11,527 | | -52.6 | | -52.6 | | 27 | | | | | |
| 150 | | 30 | | 11,764 | | -59.0 | | -67.0 | | 26 | | 12,021 | | -59.0 | | -59.0 | | 26 | | 12,021 | | 30 | | 1,019 | | 1.5 | | 1.5 | | 29 | | 2.3 | | 30 | | 12,367 | | -52.1 | | -52.1 | | 28 | | 20,8 | | 12,400 | | -52.6 | | -52.6 | | 27 | | | | | |
| 100 | | 30 | | 12,590 | | -56.7 | | -65.7 | | 26 | | 12,896 | | -56.7 | | -56.7 | | 26 | | 12,896 | | 30 | | 1,019 | | 1.5 | | 1.5 | | 29 | | 2.3 | | 30 | | 13,364 | | -52.1 | | -52.1 | | 28 | | 23,3 | | 13,394 | | -52.6 | | -52.6 | | 27 | | | | | |
| 50 | | 30 | | 13,567 | | -56.9 | | -66.9 | | 26 | | 13,810 | | -56.9 | | -56.9 | | 26 | | 13,810 | | 30 | | 1,019 | | 1.5 | | 1.5 | | 29 | | 2.3 | | 30 | | 14,541 | | -53.1 | | -53.1 | | 28 | | 25,8 | | 14,563 | | -54.9 | | -54.9 | | 28 | | | | | |
| 0 | | 30 | | 14,720 | | -58.5 | | -68.5 | | 26 | | 14,922 | | -58.5 | | -58.5 | | 26 | | 14,922 | | 30 | | 1,019 | | 1.5 | | 1.5 | | 29 | | 2.3 | | 30 | | 15,978 | | -53.6 | | -53.6 | | 28 | | 27,6 | | 15,998 | | -55.0 | | -55.0 | | 28 | | | | | |
| SURFACE | | 30 | | 16,119 | | -59.5 | | -69.5 | | 26 | | 16,266 | | -59.5 | | -59.5 | | 26 | | 16,266 | | 30 | | 1,019 | | 1.5 | | 1.5 | | 29 | | 2.3 | | 30 | | 17,911 | | -54.7 | | -54.7 | | 28 | | 29,3 | | 17,931 | | -55.7 | | -55.7 | | 28 | | | | | |
| 1000 | | 30 | | 17,511 | | -60.1 | | -70.1 | | 26 | | 17,912 | | -60.1 | | -60.1 | | 26 | | 17,912 | | 30 | | 1,019 | | 1.5 | | 1.5 | | 29 | | 2.3 | | 30 | | 18,260 | | -54.9 | | -54.9 | | 28 | | 30,3 | | 18,286 | | -56.5 | | -56.5 | | 29 | | | | | |
| 950 | | 30 | | 18,344 | | -60.4 | | -70.4 | | 26 | | 18,422 | | -60.4 | | -60.4 | | 26 | | 18,422 | | 30 | | 1,019 | | 1.5 | | 1.5 | | 29 | | 2.3 | | 30 | | 19,245 | | -54.9 | | -54.9 | | 28 | | 31,7 | | 19,269 | | -57.0 | | -57.0 | | 30 | | | | | |
| 900 | | 30 | | 19,305 | | -60.1 | | -70.1 | | 26 | | 19,361 | | -60.1 | | -60.1 | | 26 | | 19,361 | | 30 | | 1,019 | | 1.5 | | 1.5 | | 29 | | 2.3 | | 30 | | 20,245 | | -55.8 | | -55.8 | | 28 | | 32,1 | | 20,267 | | -57.6 | | -57.6 | | 31 | | | | | |
| 850 | | 30 | | 20,443 | | -60.1 | | -70.1 | | 26 | | 20,497 | | -60.1 | | -60.1 | | 26 | | 20,497 | | 30 | | 1,019 | | 1.5 | | 1.5 | | 29 | | 2.3 | | 30 | | 21,835 | | -56.5 | | -56.5 | | 27 | | 32,7 | | 21,858 | | -57.8 | | -57.8 | | 32 | | | | | |
| 800 | | 30 | | 21,838 | | -60.1 | | -70.1 | | 26 | | 21,891 | | -60.1 | | -60.1 | | 26 | | 21,891 | | 30 | | 1,019 | | 1.5 | | 1.5 | | 29 | | 2.3 | | 30 | | 23,661 | | -56.8 | | -56.8 | | 27 | | 34,5 | | 23,683 | | -58.5 | | -58.5 | | 33 | | | | | |
| 750 | | 30 | | 23,667 | | -58.7 | | -68.7 | | 26 | | 23,761 | | -58.7 | | -58.7 | | 26 | | 23,761 | | 30 | | 1,019 | | 1.5 | | 1.5 | | 29 | | 2.3 | | 30 | | 24,786 | | -58.5 | | -58.5 | | 28 | | 35,8 | | 24,808 | | -60.1 | | -60.1 | | 34 | | | | | |
| 700 | | 30 | | 24,786 | | -58.5 | | -68.5 | | 26 | | 24,870 | | -58.5 | | -58.5 | | 26 | | 24,870 | | 30 | | 1,019 | | 1.5 | | 1.5 | | 29 | | 2.3 | | 30 | | 26,191 | | -58.7 | | -58.7 | | 27 | | 37,2 | | 26,213 | | -60.3 | | -60.3 | | 35 | | | | | |
| 650 | | 30 | | 26,191 | | -58.7 | | -68.7 | | 26 | | 26,257 | | -58.7 | | -58.7 | | 26 | | 26,257 | | 30 | | 1,019 | | 1.5 | | 1.5 | | 29 | | 2.3 | | 30 | | 28,013 | | -53.8 | | -53.8 | | 27 | | 39,5 | | 28,035 | | -56.1 | | -56.1 | | 36 | | | | | |
| 600 | | 30 | | 28,013 | | -53.8 | | -63.8 | | 26 | | 28,103 | | -53.8 | | -53.8 | | 26 | | 28,103 | | 30 | | 1,019 | | 1.5 | | 1.5 | | 29 | | 2.3 | | 30 | | 30,740 | | -53.4 | | -53.4 | | 26 | | 40,7 | | 30,762 | | -55.3 | | -55.3 | | 37 | | | | | |
| 550 | | 30 | | 30,740 | | -53.4 | | -63.4 | | 26 | | 30,771 | | -53.4 | | -53.4 | | 26 | | 30,771 | | 30 | | 1,019 | | 1.5 | | 1.5 | | 29 | | 2.3 | | 30 | | 32,622 | | -57.2 | | -57.2 | | 12 | | 42,8 | | 32,644 | | -59.6 | | -59.6 | | 38 | | | | | |
| 500 | | 30 | | 32,622 | | -57.2 | | -67.2 | | 12 | | 32,653 | | -57.2 | | -57.2 | | 12 | | 32,653 | | 30 | | 1,019 | | 1.5 | | 1.5 | | 29 | | 2.3 | | 30 | | 34,509 | | -60.4 | | -60.4 | | 32 | | 44,8 | | 34,531 | | -62.8 | | -62.8 | | 39 | | | | | |
| 450 | | 30 | | 34,509 | | -60.4 | | -70.4 | | 32 | | 34,540 | | -60.4 | | -60.4 | | 32 | | 34,540 | | 30 | | 1,019 | | 1.5 | | 1.5 | | 29 | | 2.3 | | 30 | | 36,392 | | -64.6 | | -64.6 | | 28 | | 46,8 | | 36,414 | | -67.0 | | -67.0 | | 40 | | | | | |
| 400 | | 30 | | 36,392 | | -64.6 | | -74.6 | | 28 | | 36,423 | | -64.6 | | -64.6 | | 28 | | 36,423 | | 30 | | 1,019 | | 1.5 | | 1.5 | | 29 | | 2.3 | | 30 | | 38,285 | | -68.3 | | -68.3 | | 27 | | 48,7 | | 38,307 | | -70.3 | | -70.3 | | 41 | | | | | |
| 350 | | 30 | | 38,285 | | -70.3 | | -80.3 | | 27 | | 38,307 | | -70.3 | | -70.3 | | 27 | | 38,307 | | 30 | | 1,019 | | 1.5 | | 1.5 | | 29 | | 2.3 | | 30 | | 40,176 | | -71.6 | | -71.6 | | 26 | | 50,6 | | 40,198 | | -72.6 | | -72.6 | | 42 | | | | | |
| 300 | | 30 | | 40,176 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

RAWINSONDE DATA

Average monthly values

| CHARLESTON, S. C.
1017 MB | | | | | | | | | | | | CHATHAM, MASS.
1018 MB | | | | | | | | | | | | CHIHUAHUA, MEXICO
859 MB | | | | | | | | | | | | COLD BAY, ALASKA
1014 MB | | | | | | | | | | | | DAYTON, OHIO
981 MB | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|----|-------|-------|-------|----|------|----|-------|-------|-------|-----|---------------------------|-------|-------|-------|-------|-----|------|----|------|--------|-------|-------|-----------------------------|------|------|-------|-------|-------|-----|------|-----|------|-------|-------|-----------------------------|------|------|------|-------|-------|-------|------|------|-------|-------|-------|------------------------|-----|------|------|--------|-------|-------|-----|------|------|--------|-------|-------|-----|------|----|-------|-------|---|----|------|
| Standard pressure
surface (mb) | | | | | | | | | | | | Resultant
Wind | | | | | | | | | | | | Resultant
Wind | | | | | | | | | | | | Resultant
Wind | | | | | | | | | | | | Resultant
Wind | | | | | | | | | | | | | | | | | | | | |
| No of observations | | | | | | | | | | | | No of observations | | | | | | | | | | | | No of observations | | | | | | | | | | | | No of observations | | | | | | | | | | | | No of observations | | | | | | | | | | | | | | | | | | | | |
| Dynamic height | | | | | | | | | | | | Dynamic height | | | | | | | | | | | | Dynamic height | | | | | | | | | | | | Dynamic height | | | | | | | | | | | | Dynamic height | | | | | | | | | | | | | | | | | | | | |
| Temperature | | | | | | | | | | | | Temperature | | | | | | | | | | | | Temperature | | | | | | | | | | | | Temperature | | | | | | | | | | | | Temperature | | | | | | | | | | | | | | | | | | | | |
| Dew Point | | | | | | | | | | | | Dew Point | | | | | | | | | | | | Dew Point | | | | | | | | | | | | Dew Point | | | | | | | | | | | | Dew Point | | | | | | | | | | | | | | | | | | | | |
| Direction | | | | | | | | | | | | Direction | | | | | | | | | | | | Direction | | | | | | | | | | | | Direction | | | | | | | | | | | | Direction | | | | | | | | | | | | | | | | | | | | |
| Speed, m.p.h. | | | | | | | | | | | | Speed, m.p.h. | | | | | | | | | | | | Speed, m.p.h. | | | | | | | | | | | | Speed, m.p.h. | | | | | | | | | | | | Speed, m.p.h. | | | | | | | | | | | | | | | | | | | | |
| No of observations | | | | | | | | | | | | No of observations | | | | | | | | | | | | No of observations | | | | | | | | | | | | No of observations | | | | | | | | | | | | No of observations | | | | | | | | | | | | | | | | | | | | |
| SURFACE | 30 | 13 | 7.5 | 4.7 | 31 | 1.8 | 12 | 16 | 5.3 | 1.4 | 13 | 1.3 | 30 | 1.428 | 4.9 | -2.6 | 27 | .4 | 29 | 30 | 2.5 | -1 | 28 | 1.9 | 30 | 299 | 3.3 | -7 | 24 | 1.4 | 1000 | 26 | 152 | 11.4 | 6.7 | 31 | 1.8 | 12 | 16 | 5.3 | 1.4 | 13 | 1.3 | 30 | 1.428 | 4.9 | -2.6 | 27 | .4 | 29 | 30 | 2.5 | -1 | 28 | 1.9 | 30 | 299 | 3.3 | -7 | 24 | 1.4 | | | | | | | |
| 950 | 26 | 152 | 11.4 | 6.7 | 31 | 1.8 | 12 | 162 | 5.1 | -1.01 | 23 | 8.30 | 600 | | | | | | 29 | 138 | -4.2 | -4.2 | 30 | 5.8 | 30 | 563 | 3.2 | -3.2 | 24 | 4.4 | 950 | 26 | 1030 | 8.3 | -0.6 | 27 | 4.3 | 12 | 1018 | 1.2 | -4.4 | 23 | 3.40 | 1048 | | | | | | 29 | 551 | -2.4 | -4.2 | 30 | 5.8 | 30 | 563 | 3.2 | -3.2 | 24 | 4.4 | | | | | | | |
| 900 | 30 | 1501 | 6.5 | -6.6 | 26 | 5.3 | 12 | 1477 | -6 | -8.25 | 5.4 | 30 | 1.518 | 9.3 | -4.9 | 25 | 1.0 | | 29 | 983 | -2.0 | -5.5 | 30 | 7.2 | 30 | 1001 | 2.2 | -3.2 | 24 | 5.9 | 900 | 26 | 2039 | 14.4 | -6.1 | 24 | 3.4 | 12 | 1478 | -0.6 | -6.8 | 25 | 5.4 | 30 | 1518 | 9.3 | -4.9 | 25 | 1.0 | 29 | 983 | -2.0 | -5.5 | 30 | 7.2 | 30 | 1001 | 2.2 | -3.2 | 24 | 5.9 | | | | | | | |
| 850 | 30 | 1997 | 5.2 | -9.7 | 26 | 7.0 | 12 | 1960 | -2.3 | -10.3 | 26 | 6.8 | 2025 | 11.7 | -4.9 | 24 | 3.4 | | 29 | 1913 | -4.2 | -12.3 | 29 | 8.8 | 30 | 1947 | -7 | -8.2 | 24 | 8.0 | 850 | 26 | 2523 | 3.7 | -14.4 | 26 | 9.4 | 12 | 2471 | -3.3 | -14.1 | 25 | 8.2 | 30 | 2563 | 9.7 | -7.4 | 26 | 4.4 | 29 | 1913 | -4.2 | -12.3 | 29 | 8.8 | 30 | 1947 | -7 | -8.2 | 24 | 8.0 | | | | | | | |
| 800 | 30 | 2523 | 3.7 | -14.4 | 26 | 9.4 | 12 | 2471 | -3.3 | -14.1 | 25 | 8.2 | 2563 | 9.7 | -7.4 | 26 | 4.4 | | 29 | 2418 | -7.4 | -15.5 | 28 | 9.6 | 30 | 2462 | -2.7 | -12.5 | 24 | 8.4 | 800 | 26 | 3080 | 1.1 | -17.9 | 27 | 11.0 | 12 | 3016 | -4.9 | -17.1 | 24 | 9.6 | 30 | 3132 | 6.9 | -11.6 | 27 | 6.4 | 29 | 2418 | -7.4 | -15.5 | 28 | 9.6 | 30 | 2462 | -2.7 | -12.5 | 24 | 8.4 | | | | | | | |
| 750 | 30 | 3080 | 1.1 | -17.9 | 27 | 11.0 | 12 | 3016 | -4.9 | -17.1 | 24 | 9.6 | 30 | 3132 | 6.9 | -11.6 | 27 | 6.4 | | 29 | 2418 | -7.4 | -15.5 | 28 | 9.6 | 30 | 2462 | -2.7 | -12.5 | 24 | 8.4 | 750 | 26 | 3673 | -1.9 | -19.5 | 26 | 12.8 | 12 | 3596 | -7.7 | -18.5 | 24 | 11.9 | 30 | 3737 | 3.7 | -18.1 | 28 | 8.4 | 29 | 2418 | -7.4 | -15.5 | 28 | 9.6 | 30 | 2462 | -2.7 | -12.5 | 24 | 8.4 | | | | | | |
| 700 | 30 | 3673 | -1.9 | -19.5 | 26 | 12.8 | 12 | 3596 | -7.7 | -18.5 | 24 | 11.9 | 30 | 3737 | 3.7 | -18.1 | 28 | 8.4 | | 29 | 2418 | -7.4 | -15.5 | 28 | 9.6 | 30 | 2462 | -2.7 | -12.5 | 24 | 8.4 | 700 | 26 | 4203 | -5.4 | -23.1 | 26 | 15.3 | 12 | 4215 | -11.1 | -22.2 | 24 | 13.8 | 30 | 4382 | -4 | -20.2 | 28 | 8.7 | 29 | 2418 | -7.4 | -15.5 | 28 | 9.6 | 30 | 2462 | -2.7 | -12.5 | 24 | 8.4 | | | | | | |
| 650 | 30 | 4203 | -5.4 | -23.1 | 26 | 15.3 | 12 | 4215 | -11.1 | -22.2 | 24 | 13.8 | 30 | 4382 | -4 | -20.2 | 28 | 8.7 | | 29 | 2418 | -7.4 | -15.5 | 28 | 9.6 | 30 | 2462 | -2.7 | -12.5 | 24 | 8.4 | 650 | 26 | 4982 | -0.8 | -20.7 | 26 | 17.0 | 12 | 4877 | -15.5 | -28.1 | 24 | 15.5 | 30 | 5072 | -4.8 | -23.9 | 29 | 10.5 | 29 | 2418 | -7.4 | -15.5 | 28 | 9.6 | 30 | 2462 | -2.7 | -12.5 | 24 | 8.4 | | | | | | |
| 600 | 30 | 4982 | -0.8 | -20.7 | 26 | 17.0 | 12 | 4877 | -15.5 | -28.1 | 24 | 15.5 | 30 | 5072 | -4.8 | -23.9 | 29 | 10.5 | | 29 | 2418 | -7.4 | -15.5 | 28 | 9.6 | 30 | 2462 | -2.7 | -12.5 | 24 | 8.4 | 600 | 26 | 5710 | -14.8 | -30.3 | 26 | 19.5 | 12 | 5591 | -19.9 | -30.2 | 24 | 17.0 | 30 | 5814 | -10.1 | -27.8 | 28 | 12.2 | 29 | 2418 | -7.4 | -15.5 | 28 | 9.6 | 30 | 2462 | -2.7 | -12.5 | 24 | 8.4 | | | | | | |
| 550 | 30 | 5710 | -14.8 | -30.3 | 26 | 19.5 | 12 | 5591 | -19.9 | -30.2 | 24 | 17.0 | 30 | 5814 | -10.1 | -27.8 | 28 | 12.2 | | 29 | 2418 | -7.4 | -15.5 | 28 | 9.6 | 30 | 2462 | -2.7 | -12.5 | 24 | 8.4 | 550 | 26 | 6498 | -20.6 | -34.9 | 26 | 21.1 | 12 | 6364 | -25.2 | -35.8 | 25 | 19.6 | 30 | 6417 | -16.1 | -31.8 | 28 | 13.2 | 29 | 2418 | -7.4 | -15.5 | 28 | 9.6 | 30 | 2462 | -2.7 | -12.5 | 24 | 8.4 | | | | | | |
| 500 | 30 | 6498 | -20.6 | -34.9 | 26 | 21.1 | 12 | 6364 | -25.2 | -35.8 | 25 | 19.6 | 30 | 6417 | -16.1 | -31.8 | 28 | 13.2 | | 29 | 2418 | -7.4 | -15.5 | 28 | 9.6 | 30 | 2462 | -2.7 | -12.5 | 24 | 8.4 | 500 | 26 | 7358 | -27.1 | -40.6 | 27 | 22.3 | 12 | 7208 | -31.9 | -41.3 | 25 | 20.4 | 30 | 7492 | -23.1 | -36.6 | 28 | 14.5 | 29 | 2418 | -7.4 | -15.5 | 28 | 9.6 | 30 | 2462 | -2.7 | -12.5 | 24 | 8.4 | | | | | | |
| 450 | 30 | 7358 | -27.1 | -40.6 | 27 | 22.3 | 12 | 7208 | -31.9 | -41.3 | 25 | 20.4 | 30 | 7492 | -23.1 | -36.6 | 28 | 14.5 | | 29 | 2418 | -7.4 | -15.5 | 28 | 9.6 | 30 | 2462 | -2.7 | -12.5 | 24 | 8.4 | 450 | 26 | 8310 | -33.8 | -46.2 | 27 | 24.6 | 12 | 8141 | -38.6 | -47.5 | 25 | 22.4 | 30 | 8458 | -30.4 | -42.3 | 28 | 16.2 | 29 | 2418 | -7.4 | -15.5 | 28 | 9.6 | 30 | 2462 | -2.7 | -12.5 | 24 | 8.4 | | | | | | |
| 400 | 30 | 8310 | -33.8 | -46.2 | 27 | 24.6 | 12 | 8141 | -38.6 | -47.5 | 25 | 22.4 | 30 | 8458 | -30.4 | -42.3 | 28 | 16.2 | | 29 | 2418 | -7.4 | -15.5 | 28 | 9.6 | 30 | 2462 | -2.7 | -12.5 | 24 | 8.4 | 400 | 26 | 9371 | -41.5 | -50.8 | 27 | 27.6 | 12 | 9182 | -45.9 | -50.7 | 25 | 24.4 | 30 | 9533 | -38.6 | -49.4 | 28 | 19.0 | 29 | 2418 | -7.4 | -15.5 | 28 | 9.6 | 30 | 2462 | -2.7 | -12.5 | 24 | 8.4 | | | | | | |
| 350 | 30 | 9371 | -41.5 | -50.8 | 27 | 27.6 | 12 | 9182 | -45.9 | -50.7 | 25 | 24.4 | 30 | 9533 | -38.6 | -49.4 | 28 | 19.0 | | 29 | 2418 | -7.4 | -15.5 | 28 | 9.6 | 30 | 2462 | -2.7 | -12.5 | 24 | 8.4 | 350 | 26 | 10586 | -49.6 | -58.9 | 27 | 31.2 | 12 | 10376 | -52.8 | -58.8 | 25 | 27.1 | 30 | 10762 | -47.9 | - | 29 | 23.5 | 29 | 10200 | -53.5 | - | 30 | 12.3 | 30 | 10349 | -53.3 | - | 27 | 20.2 | 29 | 10200 | -53.5 | - | 27 | 20.2 |
| 300 | 30 | 10586 | -49.6 | -58.9 | 27 | 31.2 | 12 | 10376 | -52.8 | -58.8 | 25 | 27.1 | 30 | 10762 | -47.9 | - | 29 | 23.5 | | 29 | 10200 | -53.5 | - | 30 | 12.3 | 30 | 10349 | -53.3 | - | 27 | 20.2 | 300 | 26 | 12025 | -55.9 | - | 27 | 31.1 | 12 | 11800 | -57.3 | - | 25 | 26.0 | 29 | 12201 | -57.6 | - | 27 | 25.8 | 29 | 11635 | -53.9 | - | 27 | 24.5 | 29 | 11635 | -53.9 | - | 27 | 24.5 | | | | | | |
| 250 | 30 | 12025 | -55.9 | - | 27 | 31.1 | 12 | 11800 | -57.3 | - | 25 | 26.0 | 29 | 12201 | -57.6 | - | 27 | 25.8 | | 29 | 11635 | -53.9 | - | 30 | 13.3 | 30 | 12620 | -55.8 | - | 27 | 23.0 | 250 | 26 | 13869 | -59.0 | - | 27 | 31.0 | 12 | 12462 | -58.4 | - | 25 | 26.3 | 29 | 13034 | -52.2 | - | 27 | 25.6 | 29 | 12492 | -54.3 | - | 27 | 23.0 | 29 | 12492 | -54.3 | - | 27 | 23.0 | | | | | | |
| 200 | 30 | 13869 | -59.0 | - | 27 | 31.0 | 12 | 12462 | -58.4 | - | 25 | 26.3 | 29 | 13034 | -52.2 | - | 27 | 25.6 | | 29 | 12492 | -54.3 | - | 30 | 13.3 | 30 | 12620 | -55.8 | - | 27 | 23.0 | 200 | 26 | 15930 | -61.7 | - | 27 | 29.7 | 12 | 13611 | -58.3 | - | 25 | 25.9 | 29 | 13978 | -60.9 | - | 27 | 23.1 | 28 | 13475 | -54.2 | - | 27 | 23.1 | 28 | 13475 | -54.2 | - | 27 | 23.1 | | | | | | |
| 175 | 30 | 15930 | -61.7 | - | 27 | 29.7 | 12 | 13611 | -58.3 | - | 25 | 25.9 | 29 | 13978 | -60.9 | - | 27 | 23.1 | | 28 | 13475 | -54.2 | - | 30 | 13.3 | 30 | 12620 | -55.8 | - | 27 | 23.0 | 175 | 26 | 17494 | -64.6 | - | 27 | 24.4 | 12 | 14756 | -59.0 | - | 25 | 20.6 | 29 | 15078 | -68.6 | - | 27 | 20.9 | 28 | 14641 | -55.4 | - | 27 | 20.9 | 28 | 14641 | -55.4 | - | 27 | 20.9 | | | | | | |
| 150 | 30 | 17494 | -64.6 | - | 27 | 24.4 | 12 | 14756 | -59.0 | - | 25 | 20.6 | 29 | 15078 | -68.6 | - | 27 | 20.9 | | 28 | 14641 | -55.4 | - | 30 | 13.3 | 30 | 12620 | -55.8 | - | 27 | 23.0 | 150 | 26 | 19318 | -66.6 | - | 27 | 20.7 | 12 | 16151 | -60.8 | - | 25 | 18.0 | 29 | 16045 | -71.2 | - | 27 | 16.6 | 28 | 16064 | -55.5 | - | 27 | 16.6 | 28 | 16064 | -55.5 | - | 27 | 16.6 | | | | | | |
| 125 | 30 | 19318 | -66.6 | - | 27 | 20.7 | 12 | 16151 | -60.8 | - | 25 | 18.0 | 29 | 16045 | -71.2 | - | 27 | 16.6 | | 28 | 16064 | -55.5 | - | 30 | 13.3 | 30 | 12620 | -55.8 | - | 27 | 23.0 | 125 | 26 | 21672 | -63.1 | - | 27 | 14.1 | 12 | 17540 | -60.1 | - | 24 | 14.9 | 29 | 17721 | -71.4 | - | 28 | 12.4 | 28 | 177482 | -56.6 | - | 27 | 12.4 | 28 | 177482 | -56.6 | - | 27 | 12.4 | | | | | | |
| 100 | 30 | 21672 | -63.1 | - | 27 | 14.1 | 12 | 17540 | -60.1 | - | 24 | 14.9 | 29 | 17721 | -71.4 | - | 28 | 12.4 | | 28 | 177482 | -56.6 | - | 30 | 13.3 | 30 | 12620 | -55.8 | - | 27 | 23.0 | 100 | 26 | 23840 | -65.4 | - | 27 | 10.4 | 12 | 18373 | -60.3 | - | 24 | 13.3 | 28 | 18512 | -69.7 | - | 28 | 8.5 | 27 | 18334 | -57.1 | - | 28 | 8.5 | 27 | 18334 | -57.1 | - | 28 | 8.5 | | | | | | |
| 75 | 30 | 23840 | -65.4 | - | 27 | 10.4 | 12 | 18373 | -60.3 | - | 24 | 13.3 | 28 | 18512 | -69.7 | - | 28 | 8.5 | | 27 | 18334 | -57.1 | - | 30 | 13.3 | 30 | 12620 | -55.8 | - | 27 | 23.0 | 75 | 26 | 25942 | -61.2 | - | 27 | 10.6 | 12 | 19436 | -58.9 | - | 24 | 13.3 | 28 | 19619 | -78.9 | - | 28 | 8.5 | 27 | 18334 | -57.1 | - | 28 | 8.5 | | | | | | | | | | | | |
| 50 | 30 | 25942 | -61.2 | - | 27 | 10.6 | 12 | 19436 | -58.9 | - | 24 | 13.3 | 28 | 19619 | -78.9 | - | 28 | 8.5 | | 27 | 18334 | -57.1 | - | 30 | 13.3 | 30 | 12620 | -55.8 | - | 27 | 23.0 | 50 | 26 | 27981 | -64.8 | - | 27 | 11.3 | 12 | 20581 | -56.8 | - | 24 | 14.6 | 27 | 20553 | -62.3 | - | 28 | 6.8 | 26 | 20464 | -54.0 | - | 27 | 6.8 | 26 | 20464 | -54.0 | - | 27 | 6.8 | | | | | | |
| 25 | 30 | 27981 | -64.8 | - | 27 | 11.3 | 12 | 20581 | -56.8 | - | 24 | 14.6 | 27 | 20553 | -62.3 | - | 28 | 6.8 | | 26 | 20464 | -54.0 | - | 30 | 13.3 | 30 | 12620 | -55.8 | - | 27 | 23.0 | 25 | 26 | 29889 | -68.1 | - | 27 | 11.3 | 12</ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Average monthly values

November 1970

| JOHNSTON IS., PACIFIC AREA
1013 MB | | | | | | KEY WEST, FLA.
1017 MB | | | | | | KING SALMON, ALASKA
1012 MB | | | | | | KOROR, CAROLINE IS.
1006 MB | | | | | | KOTZEBUE, ALASKA
1013 MB | | | | | | |
|---------------------------------------|----|--------|-------|-------|----|---------------------------|-------|--------|-------|-------|----|--------------------------------|----|--------|-------|-------|----|--------------------------------|----|--------|-------|-------|-----|-----------------------------|----|--------|-------|-------|-----|------|
| SURFACE | 30 | 3 | 25.7 | 22.2 | 08 | 7.0 | 29 | 3 | 21.2 | 17.3 | 04 | 3.9 | 30 | 15 | -2.2 | -5.8 | 34 | 6.30 | 30 | 28.2 | 25.1 | 08 | 2.0 | 25 | 5 | -10.5 | -13.3 | 09 | 2.7 | |
| 1000 | 30 | 115 | 24.5 | 21.4 | 08 | 7.3 | 29 | 147 | 20.8 | 16.4 | 05 | 4.9 | 30 | 110 | | | 29 | 2.0 | 30 | 87 | 27.4 | 23.1 | 08 | 2.3 | 25 | 104 | | 10 | 1.9 | |
| 950 | 30 | 564 | 21.1 | 19.1 | 09 | 8.1 | 29 | 585 | 17.7 | 14.0 | 06 | 4.4 | 30 | 519 | -1.3 | -5.8 | 31 | 2.4 | 30 | 541 | 24.4 | 19.9 | 09 | 4.7 | 25 | 502 | -6.8 | -12.1 | 11 | 1.1 |
| 900 | 30 | 1,031 | 18.2 | 15.6 | 09 | 7.1 | 29 | 1,051 | 14.8 | 9.1 | 05 | 2.2 | 30 | 950 | -2.4 | -7.6 | 30 | 3.9 | 30 | 1,014 | 21.5 | 16.1 | 09 | 5.0 | 25 | 920 | -9.8 | -12.4 | 25 | 1.5 |
| 850 | 30 | 1,519 | 15.3 | 12.3 | 10 | 5.8 | 29 | 1,533 | 12.0 | 4.8 | 03 | 0.8 | 30 | 1,402 | -4.2 | -9.5 | 29 | 3.9 | 30 | 1,508 | 18.4 | 12.6 | 09 | 5.0 | 25 | 1,361 | -10.6 | -14.9 | 25 | 2.9 |
| 800 | 30 | 2,033 | 12.7 | 8.4 | 09 | 4.1 | 29 | 2,040 | 10.3 | -2.7 | 28 | 2.0 | 30 | 1,878 | -6.4 | -11.0 | 29 | 4.7 | 30 | 2,027 | 18.1 | 9.1 | 09 | 5.8 | 25 | 1,826 | -12.3 | -18.0 | 26 | 3.8 |
| 750 | 30 | 2,573 | 10.3 | 4.2 | 10 | 2.3 | 29 | 2,573 | 1.1 | -9.3 | 27 | 0.6 | 30 | 2,381 | -8.8 | -14.3 | 28 | 6.3 | 30 | 2,573 | 13.1 | 5.8 | 08 | 6.2 | 25 | 2,317 | -10.8 | -25.8 | 25 | 7.7 |
| 700 | 30 | 3,145 | 7.3 | -2.8 | 10 | 2.7 | 29 | 3,146 | 7.3 | -15.1 | 27 | 2.8 | 30 | 2,913 | -11.1 | -18.1 | 29 | 8.8 | 30 | 3,151 | 10.1 | 2.2 | 09 | 6.5 | 25 | 2,838 | -10.6 | -23.5 | 24 | 5.8 |
| 650 | 30 | 3,752 | 4.1 | -9.5 | 12 | 2.2 | 29 | 3,747 | 4.0 | -19.4 | 27 | 5.1 | 30 | 3,479 | -14.0 | -20.9 | 29 | 10.0 | 30 | 3,765 | 6.7 | -2.0 | 09 | 6.9 | 25 | 3,392 | -19.6 | -26.7 | 25 | 7.1 |
| 600 | 30 | 4,399 | 5.5 | -13.4 | 13 | 1.2 | 29 | 4,398 | 4.4 | -22.3 | 28 | 6.8 | 30 | 4,083 | -17.4 | -24.2 | 29 | 11.5 | 30 | 4,418 | 3.0 | -6.0 | 09 | 7.8 | 25 | 3,982 | -23.1 | -30.7 | 25 | 7.7 |
| 550 | 30 | 5,092 | -3.5 | -17.3 | 10 | 1.0 | 29 | 5,082 | -4.1 | -27.2 | 27 | 8.4 | 30 | 4,730 | -21.2 | -28.5 | 28 | 10.3 | 30 | 5,119 | -8.7 | -11.2 | 09 | 8.6 | 25 | 4,615 | -26.8 | -33.9 | 25 | 9.5 |
| 500 | 30 | 5,839 | -8.1 | -22.1 | 29 | 0.2 | 29 | 5,835 | -9.1 | -31.9 | 27 | 11.1 | 30 | 5,428 | -25.6 | -34.0 | 28 | 10.1 | 30 | 5,874 | -5.1 | -16.1 | 09 | 8.8 | 25 | 5,296 | -31.1 | -37.3 | 25 | 10.7 |
| 450 | 30 | 6,590 | -13.3 | -26.6 | 29 | 0.8 | 29 | 6,638 | -14.9 | -36.8 | 27 | 13.3 | 30 | 6,183 | -30.8 | -37.9 | 28 | 9.2 | 30 | 6,695 | -9.9 | -21.9 | 09 | 8.4 | 25 | 6,036 | -35.8 | -39.3 | 25 | 11.1 |
| 400 | 30 | 7,357 | -19.3 | -31.3 | 29 | 3.9 | 29 | 7,353 | -20.1 | -41.2 | 27 | 16.1 | 30 | 6,811 | -36.5 | -42.4 | 29 | 8.2 | 30 | 7,357 | -28.4 | -28.9 | 09 | 8.3 | 25 | 6,930 | -41.1 | -42.9 | 25 | 12.7 |
| 350 | 30 | 8,151 | -26.1 | -38.3 | 27 | 8.0 | 29 | 8,150 | -26.1 | -41.2 | 27 | 21.3 | 30 | 7,926 | -42.5 | -48.5 | 29 | 11.1 | 30 | 8,152 | -22.2 | -39.9 | 09 | 7.7 | 25 | 7,455 | -45.6 | -50.8 | 25 | 15.2 |
| 300 | 30 | 9,613 | -34.8 | -46.1 | 27 | 12.2 | 29 | 9,582 | -36.3 | -53.3 | 27 | 25.7 | 30 | 8,948 | -49.5 | -55.5 | 29 | 11.1 | 30 | 9,705 | -30.2 | -43.9 | 08 | 7.8 | 25 | 8,754 | -51.9 | -57.9 | 25 | 15.6 |
| 250 | 30 | 10,859 | -44.6 | -54.6 | 27 | 16.8 | 29 | 10,823 | -45.6 | -60.6 | 27 | 29.0 | 30 | 10,130 | -53.3 | -59.3 | 29 | 11.6 | 30 | 10,975 | -40.4 | -52.6 | 07 | 7.6 | 25 | 9,927 | -54.6 | -60.6 | 26 | 16.0 |
| 200 | 30 | 12,315 | -56.2 | -62.1 | 27 | 19.2 | 28 | 12,270 | -56.9 | -65.9 | 26 | 32.8 | 29 | 11,574 | -53.4 | -59.4 | 29 | 12.0 | 30 | 12,456 | -52.9 | -60.6 | 06 | 7.5 | 25 | 11,360 | -53.0 | -59.0 | 26 | 16.2 |
| 175 | 30 | 13,152 | -62.1 | -68.1 | 27 | 19.5 | 28 | 13,106 | -62.1 | -68.1 | 26 | 34.8 | 29 | 12,433 | -53.4 | -59.4 | 29 | 11.4 | 30 | 13,303 | -60.0 | -67.8 | 06 | 7.3 | 25 | 12,223 | -52.5 | -58.5 | 26 | 16.2 |
| 150 | 30 | 14,091 | -68.3 | -74.3 | 27 | 17.3 | 28 | 14,049 | -68.3 | -74.3 | 26 | 31.7 | 29 | 13,425 | -54.0 | -60.0 | 28 | 11.6 | 30 | 14,248 | -67.8 | -75.6 | 07 | 7.2 | 25 | 13,219 | -52.5 | -58.5 | 26 | 15.8 |
| 125 | 29 | 15,173 | -73.3 | -79.3 | 28 | 15.3 | 28 | 15,143 | -70.5 | -76.5 | 27 | 25.8 | 29 | 14,595 | -54.0 | -60.0 | 28 | 9.8 | 30 | 15,324 | -75.8 | -83.6 | 07 | 6.9 | 25 | 14,390 | -51.5 | -57.5 | 25 | 15.5 |
| 100 | 29 | 16,463 | -77.4 | -83.4 | 29 | 6.4 | 28 | 16,453 | -77.4 | -83.4 | 27 | 17.0 | 29 | 16,024 | -53.9 | -59.9 | 28 | 8.2 | 30 | 16,589 | -87.8 | -95.6 | 06 | 7.4 | 24 | 15,846 | -50.8 | -56.8 | 24 | 16.8 |
| 80 | 28 | 17,747 | -74.0 | -80.0 | 03 | 8.2 | 27 | 17,751 | -72.6 | -78.6 | 27 | 5.7 | 28 | 17,450 | -54.7 | -60.7 | 27 | 7.4 | 29 | 17,830 | -80.5 | -88.3 | 09 | 12.9 | 24 | 17,290 | -52.6 | -58.6 | 26 | 14.4 |
| 70 | 28 | 18,534 | -70.1 | -76.1 | 11 | 3.4 | 27 | 18,542 | -69.0 | -75.0 | 26 | 2.9 | 28 | 18,303 | -55.5 | -61.5 | 27 | 7.5 | 29 | 18,598 | -73.1 | -80.9 | 09 | 9.3 | 24 | 18,152 | -53.4 | -59.4 | 25 | 14.9 |
| 60 | 27 | 19,461 | -66.7 | -72.7 | 10 | 6.5 | 27 | 19,473 | -64.3 | -70.3 | 13 | 9.2 | 27 | 19,285 | -55.5 | -61.5 | 27 | 8.0 | 29 | 19,512 | -68.5 | -76.3 | 09 | 12.7 | 24 | 19,143 | -54.3 | -60.3 | 26 | 14.2 |
| 50 | 27 | 20,572 | -63.9 | -69.9 | 09 | 9.8 | 27 | 20,596 | -61.4 | -67.4 | 10 | 3.2 | 27 | 20,446 | -55.8 | -61.8 | 26 | 6.5 | 29 | 20,613 | -65.7 | -73.5 | 09 | 12.0 | 24 | 20,311 | -54.6 | -60.6 | 26 | 17.0 |
| 40 | 27 | 21,933 | -60.3 | -66.3 | 09 | 13.2 | 27 | 21,994 | -57.5 | -63.5 | 08 | 6.1 | 25 | 21,867 | -55.0 | -61.0 | 27 | 8.4 | 29 | 21,983 | -61.1 | -68.9 | 09 | 25.8 | 24 | 21,739 | -55.0 | -61.0 | 26 | 15.0 |
| 30 | 27 | 23,769 | -55.4 | -61.4 | 09 | 16.2 | 27 | 23,825 | -52.4 | -58.4 | 09 | 6.6 | 23 | 23,697 | -55.6 | -61.6 | 27 | 6.4 | 28 | 23,998 | -54.2 | -62.0 | 09 | 29.8 | 22 | 23,555 | -50.6 | -56.6 | 26 | 14.3 |
| 20 | 26 | 24,938 | -53.6 | -59.6 | 09 | 12.8 | 27 | 25,001 | -50.7 | -56.7 | 09 | 6.1 | 23 | 24,811 | -51.1 | -57.1 | 27 | 7.5 | 28 | 25,124 | -51.1 | -58.9 | 09 | 23.5 | 24 | 24,724 | -50.8 | -56.8 | 26 | 14.3 |
| 20 | 26 | 26,382 | -51.2 | -57.2 | 09 | 8.9 | 25 | 26,357 | -48.4 | -54.4 | 09 | 6.0 | 13 | 26,331 | -55.1 | -61.1 | 31 | 7.6 | 23 | 26,450 | -45.4 | -53.2 | 10 | 6.7 | 16 | 26,158 | -57.3 | -63.3 | 27 | 20.2 |
| 15 | 23 | 28,273 | -47.5 | -53.5 | 24 | 1.8 | 24 | 28,241 | -44.0 | -50.0 | 18 | 1.5 | 5 | 28,190 | -55.0 | -61.0 | | | | 28,395 | -41.4 | -49.2 | 28 | 7.8 | 9 | 27,912 | -50.6 | -56.6 | | |
| 10 | 22 | 30,993 | -41.1 | -47.1 | 26 | 13.6 | 15 | 31,109 | -40.4 | -46.4 | 28 | 10.3 | | | | | | | | 31,154 | -39.0 | -46.8 | 27 | 12.5 | | | | | | |
| 7 | 11 | 33,469 | -35.4 | -41.4 | 6 | 33.550 | -35.9 | | | | | | | | | | | | | 33,438 | -36.5 | -44.3 | 27 | 11.0 | | | | | | |

See reference at end of table.

Average monthly values

$$N(\mathcal{N}_1, \mathcal{N}_2) = \frac{1}{2} \left(\frac{1}{\mathcal{N}_1} + \frac{1}{\mathcal{N}_2} \right) \quad (14)$$

| MIDLAND, TEXAS | | | | | | | | | | MONETT, MISSOURI | | | | | | | | | | MONTERREY, MEXICO | | | | | | | | | | MONTGOMERY, ALA. | | | | | | | | | | NASHVILLE, TENN. | | | | | | | | | |
|----------------|----|--------|--------|-------|----|------|----|--------|-------|------------------|----|------|-----|--------|-------|-------|----|------|-----|-------------------|-------|-------|-----|------|-------|--------|-------|-------|-----|------------------|--|--|--|--|--|--|--|--|--|------------------|--|--|--|--|--|--|--|--|--|
| 918 MB | | | | | | | | | | 966 MB | | | | | | | | | | 966 MB | | | | | | | | | | 1013 MB | | | | | | | | | | 997 MB | | | | | | | | | |
| SURFACE | 30 | 874 | 3.7 | -4.1 | 24 | 1.5 | 30 | 438 | 4.2 | 1.0 | 24 | 1.4 | 23 | 423 | 11.1 | 7.6 | 31 | 2.0 | 30 | 57 | 6.1 | 3.4 | 31 | 7.7 | 30 | 180 | 5.7 | 2.4 | 21 | .9 | | | | | | | | | | | | | | | | | | | |
| 1000 | 30 | 174 | | | | | 30 | 150 | | | | 23 | 155 | | | | | 30 | 166 | 8.9 | 3.6 | 31 | 1.3 | 30 | 156 | | | 26 | 1.0 | | | | | | | | | | | | | | | | | | | | |
| 950 | 30 | 596 | | | | | 30 | 570 | 4.9 | 0.0 | 26 | 2.3 | 23 | 586 | 13.7 | 7.6 | 33 | 2.1 | 30 | 592 | 8.7 | 3.6 | 31 | 2.5 | 30 | 576 | 5.7 | -1.5 | 25 | 6.4 | | | | | | | | | | | | | | | | | | | |
| 900 | 30 | 1,039 | 9.7 | -3.6 | 26 | 2.4 | 30 | 1,012 | 4.7 | -1.1 | 26 | 6.3 | 23 | 1,043 | 14.3 | 5.0 | 35 | 2.2 | 30 | 1,038 | 6.9 | -2.28 | 4.4 | 30 | 1,018 | 4.0 | -2.8 | 25 | 6.4 | | | | | | | | | | | | | | | | | | | | |
| 850 | 30 | 1,516 | 10.7 | -7.3 | 28 | 5.9 | 30 | 1,478 | 7.4 | -4.9 | 28 | 7.4 | 23 | 1,517 | 17.7 | 10.7 | 37 | 1.8 | 30 | 1,512 | 9.9 | -4.2 | 7.7 | 30 | 1,488 | 6.2 | -4.8 | 27 | 6.4 | | | | | | | | | | | | | | | | | | | | |
| 800 | 30 | 2,019 | 8.9 | -9.3 | 29 | 8.0 | 30 | 1,968 | 2.7 | -8.1 | 29 | 8.2 | 23 | 2,036 | 12.3 | -3.8 | 27 | 1.6 | 30 | 2,003 | 5.0 | -8.5 | 27 | 7.8 | 30 | 1,970 | 1.1 | -9.1 | 26 | 8.4 | | | | | | | | | | | | | | | | | | | |
| 750 | 30 | 2,551 | 6.3 | -11.5 | 29 | 9.7 | 30 | 2,488 | 0.1 | -11.6 | 30 | 8.9 | 23 | 2,576 | 10.2 | -5.8 | 26 | 4.7 | 30 | 2,529 | 3.6 | -11.6 | 27 | 8.9 | 30 | 2,487 | -9.3 | -13.0 | 27 | 9.5 | | | | | | | | | | | | | | | | | | | |
| 700 | 30 | 3,113 | 3.0 | -14.9 | 28 | 11.0 | 30 | 3,088 | -2.5 | -14.3 | 29 | 10.2 | 23 | 3,147 | 7.2 | -9.9 | 28 | 6.9 | 30 | 3,086 | -8 | -14.3 | 27 | 10.8 | 30 | 3,036 | -3.3 | -16.0 | 27 | 10.6 | | | | | | | | | | | | | | | | | | | |
| 650 | 30 | 3,709 | | -19.0 | 28 | 13.2 | 30 | 3,623 | -5.4 | -17.5 | 29 | 11.8 | 23 | 3,752 | 3.6 | -14.5 | 29 | 7.4 | 30 | 3,678 | -2.3 | -17.1 | 27 | 13.1 | 30 | 3,619 | -6.3 | -19.7 | 27 | 12.8 | | | | | | | | | | | | | | | | | | | |
| 600 | 30 | 4,305 | -3.8 | -22.1 | 26 | 15.2 | 30 | 4,208 | -10.2 | -21.1 | 26 | 13.3 | 23 | 4,397 | 0 | -18.9 | 28 | 7.4 | 30 | 4,288 | -5.8 | -21.6 | 27 | 16.0 | 30 | 4,237 | -1.3 | -23.6 | 27 | 13.4 | | | | | | | | | | | | | | | | | | | |
| 550 | 30 | 5,026 | -8.3 | -26.3 | 28 | 16.6 | 30 | 4,911 | -13.2 | -25 | 29 | 16.2 | 23 | 5,088 | -4.6 | -23.1 | 29 | 8.9 | 30 | 4,986 | -9.9 | -23.7 | 27 | 17.9 | 30 | 4,908 | -13.8 | -27.7 | 27 | 16.5 | | | | | | | | | | | | | | | | | | | |
| 500 | 30 | 5,739 | -13.5 | -29.8 | 29 | 18.9 | 30 | 5,534 | -18.1 | -29.3 | 29 | 18.1 | 23 | 5,831 | -10.0 | -26.0 | 28 | 10.2 | 30 | 5,714 | -14.9 | -30.2 | 27 | 20.2 | 30 | 5,625 | -18.7 | -31.2 | 27 | 17.7 | | | | | | | | | | | | | | | | | | | |
| 450 | 30 | 6,552 | -19.4 | -34.8 | 29 | 21.5 | 30 | 6,343 | -23.7 | -34.6 | 28 | 18.6 | 23 | 6,634 | -15.7 | -31.3 | 28 | 11.8 | 30 | 6,503 | -20.3 | -34.9 | 27 | 23.0 | 30 | 6,402 | -24.7 | -36.7 | 27 | 19.2 | | | | | | | | | | | | | | | | | | | |
| 400 | 30 | 7,415 | -26.2 | -39.7 | 28 | 22.9 | 30 | 7,262 | -30.4 | -39.4 | 29 | 19.6 | 23 | 7,512 | -22.1 | -35.9 | 28 | 14.4 | 30 | 7,364 | -26.5 | -40.1 | 27 | 25.8 | 30 | 7,250 | -30.4 | -40.4 | 27 | 20.6 | | | | | | | | | | | | | | | | | | | |
| 350 | 30 | 8,317 | -32.5 | -45.7 | 25 | 25.5 | 30 | 8,200 | -37.3 | -46.4 | 29 | 21.0 | 23 | 8,483 | -29.3 | -42.6 | 28 | 18.5 | 30 | 8,318 | -33.7 | -45.7 | 27 | 27.7 | 30 | 8,190 | -37.9 | -44.4 | 27 | 22.6 | | | | | | | | | | | | | | | | | | | |
| 300 | 30 | 9,435 | -40.9 | -49.6 | 29 | 27.8 | 30 | 9,284 | -45.7 | -49.7 | 28 | 23.3 | 23 | 9,599 | -37.7 | -49.3 | 27 | 20.8 | 30 | 9,486 | -41.1 | -51.2 | 27 | 30.8 | 30 | 9,377 | -46.3 | -51.7 | 27 | 25.4 | | | | | | | | | | | | | | | | | | | |
| 250 | 30 | 10,682 | -49.5 | | 28 | 30.1 | 30 | 10,444 | -52.0 | | 28 | 29.4 | 23 | 10,793 | -47.6 | | 27 | 25.8 | 30 | 10,593 | -49.4 | | 27 | 32.8 | 30 | 10,441 | -51.3 | | 27 | 29.4 | | | | | | | | | | | | | | | | | | | |
| 200 | 30 | 12,087 | -57.8 | | 28 | 31.6 | 30 | 11,872 | -56.6 | | 28 | 31.1 | 23 | 12,234 | -57.8 | | 27 | 30.3 | 30 | 12,034 | -55.9 | | 27 | 35.9 | 30 | 11,873 | -50.1 | | 27 | 31.7 | | | | | | | | | | | | | | | | | | | |
| 175 | 30 | 12,921 | -61.9 | | 28 | 32.0 | 30 | 12,715 | -58.8 | | 28 | 30.7 | 23 | 13,066 | -63.0 | | 26 | 30.7 | 30 | 12,877 | -59.0 | | 27 | 33.6 | 30 | 12,719 | -57.9 | | 27 | 30.6 | | | | | | | | | | | | | | | | | | | |
| 150 | 30 | 13,869 | -64.4 | | 28 | 28.5 | 30 | 13,680 | -60.8 | | 26 | 28.6 | 23 | 14,005 | -66.8 | | 26 | 25.8 | 30 | 13,838 | -61.5 | | 27 | 30.8 | 30 | 13,686 | -59.5 | | 27 | 27.7 | | | | | | | | | | | | | | | | | | | |
| 125 | 30 | 14,978 | -67.0 | | 28 | 23.6 | 28 | 14,813 | -64.2 | | 26 | 23.7 | 23 | 15,151 | -69.7 | | 26 | 22.4 | 30 | 14,961 | -64.7 | | 27 | 26.7 | 30 | 14,803 | -61.9 | | 27 | 22.6 | | | | | | | | | | | | | | | | | | | |
| 100 | 30 | 16,315 | -69.1 | | 28 | 19.1 | 28 | 16,185 | -64.1 | | 28 | 18.1 | 23 | 16,471 | -73.2 | | 20 | 17.9 | 30 | 16,315 | -66.4 | | 27 | 21.5 | 29 | 16,197 | -64.1 | | 27 | 20.4 | | | | | | | | | | | | | | | | | | | |
| 75 | 30 | 17,648 | -68.8 | | 28 | 14.9 | 27 | 17,551 | -64.1 | | 28 | 14.1 | 23 | 17,717 | -74.3 | | 27 | 11.0 | 30 | 17,668 | -65.6 | | 27 | 14.7 | 28 | 17,563 | -63.9 | | 26 | 14.4 | | | | | | | | | | | | | | | | | | | |
| 50 | 30 | 18,541 | -67.1 | | 28 | 11.2 | 27 | 18,371 | -63.3 | | 29 | 10.9 | 20 | 18,498 | -71.8 | | 27 | 7.5 | 30 | 18,483 | -64.2 | | 27 | 11.5 | 28 | 18,383 | -62.9 | | 27 | 12.7 | | | | | | | | | | | | | | | | | | | |
| 25 | 30 | 19,386 | -65.4 | | 28 | 8.8 | 27 | 19,314 | -63.2 | | 28 | 7.8 | 17 | 19,423 | -66.8 | | 27 | 5.2 | 29 | 19,431 | -61.9 | | 26 | 9.8 | 28 | 19,335 | -62.2 | | 26 | 10.4 | | | | | | | | | | | | | | | | | | | |
| 0 | 30 | 20,506 | -62.1 | | 28 | 7.4 | 27 | 20,434 | -61.5 | | 26 | 7.2 | 15 | 20,557 | -68.7 | | 26 | 3.5 | 30 | 20,557 | -59.2 | | 26 | 7.8 | 29 | 20,464 | -60.6 | | 26 | 12.4 | | | | | | | | | | | | | | | | | | | |
| | 30 | 21,894 | -59.3 | | 28 | 8.2 | 27 | 21,834 | -59.8 | | 27 | 8.1 | 18 | 21,926 | -59.9 | | 26 | 2.7 | 29 | 21,974 | -60.5 | | 25 | 7.8 | 28 | 21,859 | -59.8 | | 26 | 12.4 | | | | | | | | | | | | | | | | | | | |
| | 30 | 27,312 | -55.8 | | 27 | 10.2 | 23 | 26,554 | -56.7 | | 27 | 10.3 | 18 | 27,745 | -55.6 | | 26 | 8.2 | 30 | 27,810 | -54.4 | | 25 | 8.2 | 28 | 27,678 | -56.2 | | 26 | 14.7 | | | | | | | | | | | | | | | | | | | |
| | 25 | 24,880 | -53.9 | | 25 | 12.6 | 20 | 24,820 | -55.4 | | 27 | 18.6 | 16 | 24,912 | -53.9 | | 05 | 1.0 | 27 | 24,982 | -53.4 | | 26 | 9.1 | 26 | 24,839 | -55.5 | | 26 | 17.0 | | | | | | | | | | | | | | | | | | | |
| | 20 | 25,368 | -53.2 | | 27 | 13.4 | 18 | 25,253 | -54.2 | | 27 | 15.5 | 13 | 26,351 | -52.9 | | | | 27 | 26,424 | -52.2 | | 27 | 11.9 | 26 | 26,264 | -53.7 | | 26 | 18.6 | | | | | | | | | | | | | | | | | | | |
| | 15 | 26,181 | -52.5 | | 27 | 14.1 | 13 | 26,086 | -53.9 | | 27 | 16.0 | 9 | 26,211 | -51.4 | | | | 27 | 26,287 | -50.1 | | 27 | 14.9 | 26 | 26,127 | -52.7 | | 27 | 23.3 | | | | | | | | | | | | | | | | | | | |
| | 10 | 26,798 | -51.3 | | 27 | 24.3 | 7 | 26,731 | -50.1 | | | | | | | | | | 17 | 30,788 | -46.9 | | | | 30 | 30,737 | -51.2 | | 27 | 21.9 | | | | | | | | | | | | | | | | | | | |
| | 7 | 6 | 33,123 | -48.0 | | | | | | | | | | | | | | | | 33,380 | -44.6 | | | | | 33,071 | | | | | | | | | | | | | | | | | | | | | | | |

See reference note at end of table

RAWINSONDE DATA

Average monthly values

November 1970

| NOME, ALASKA
1010 MB | | | | | | | | | | NORTH PLATTE, NEBR.
918 MB | | | | | | | | | | OAKLAND, CALIF.
1017 MB | | | | | | | | | | OMAHA, NEBR.
968 MB | | | | | | | | | | PAGO PAGO, AMERICAN SAMOA
1011 MB | | | | | | | | | |
|-----------------------------------|----|--------|-------|-------|----|-------|--------|-------|-------|-----------------------------------|------|------|--------|-------|-------|-----|------|-----|--------|-----------------------------------|-------|-----|------|-------|--------|-------|-------|------|------|-----------------------------------|--------|--------|-------|------|------|-------|--------|-------|-------|--------------------------------------|------|-------|--------|-------|-------|------|------|----|-----|
| Standard pressure
surface (mb) | | | | | | | | | | Standard pressure
surface (mb) | | | | | | | | | | Standard pressure
surface (mb) | | | | | | | | | | Standard pressure
surface (mb) | | | | | | | | | | Standard pressure
surface (mb) | | | | | | | | | |
| No of observations | | | | | | | | | | No of observations | | | | | | | | | | No of observations | | | | | | | | | | No of observations | | | | | | | | | | No of observations | | | | | | | | | |
| Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | |
| Temperature | | | | | | | | | | Temperature | | | | | | | | | | Temperature | | | | | | | | | | Temperature | | | | | | | | | | Temperature | | | | | | | | | |
| Dew Point | | | | | | | | | | Dew Point | | | | | | | | | | Dew Point | | | | | | | | | | Dew Point | | | | | | | | | | Dew Point | | | | | | | | | |
| Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | |
| Speed | | | | | | | | | | Speed | | | | | | | | | | Speed | | | | | | | | | | Speed | | | | | | | | | | Speed | | | | | | | | | |
| M.p.h. | | | | | | | | | | M.p.h. | | | | | | | | | | M.p.h. | | | | | | | | | | M.p.h. | | | | | | | | | | M.p.h. | | | | | | | | | |
| SURFACE | 30 | 193 | -5.6 | -8.8 | 08 | 1.70 | 847 | -3.4 | -6.4 | 34 | 2.4 | 30 | 147 | 11.4 | 9.2 | 15 | 1.2 | 30 | 403 | -7 | -3.6 | 33 | 2.3 | 30 | 5 | 28.6 | 24.2 | 09 | 2.2 | 30 | 5 | 28.6 | 24.2 | 09 | 2.2 | 30 | 5 | 28.6 | 24.2 | 09 | 2.2 | 30 | 5 | 28.6 | 24.2 | 09 | 2.2 | | |
| 1000 | 30 | 82 | -5.3 | -8.8 | 18 | 1.59 | 162 | | | 30 | 576 | 11.3 | 5.2 | 21 | 1.2 | 30 | 138 | | | 30 | 550 | .5 | -4.0 | 33 | 4.1 | 30 | 552 | 23.6 | 10.1 | 06 | 3.2 | 30 | 552 | 23.6 | 10.1 | 06 | 3.2 | 30 | 552 | 23.6 | 10.1 | 06 | 3.2 | 30 | 552 | 23.6 | 10.1 | 06 | 3.2 |
| 950 | 30 | 907 | -9.9 | -10.7 | 21 | 4.20 | 1,002 | -7.2 | -5.6 | 33 | 4.2 | 30 | 1,027 | 9.8 | 4.24 | 2.9 | 30 | 986 | 1.8 | -6.2 | 32 | 6.4 | 30 | 1,023 | 20.3 | 15.2 | 05 | 3.8 | 30 | 1,023 | 20.3 | 15.2 | 05 | 3.8 | 30 | 1,023 | 20.3 | 15.2 | 05 | 3.8 | 30 | 1,023 | 20.3 | 15.2 | 05 | 3.8 | | | |
| 900 | 30 | 1,350 | -9.0 | -13.6 | 21 | 5.40 | 1,063 | 1.5 | -7.3 | 33 | 6.5 | 30 | 1,501 | 8.2 | -5.8 | 24 | 4.7 | 30 | 1,447 | 1.5 | -11.0 | 32 | 7.2 | 30 | 1,514 | 17.4 | 11.7 | 04 | 3.8 | 30 | 1,514 | 17.4 | 11.7 | 04 | 3.8 | 30 | 1,514 | 17.4 | 11.7 | 04 | 3.8 | 30 | 1,514 | 17.4 | 11.7 | 04 | 3.8 | | |
| 850 | 30 | 1,819 | -10.1 | -16.4 | 22 | 6.60 | 1,951 | 1.0 | -9.9 | 32 | 8.1 | 30 | 2,000 | 6.1 | -8.4 | 24 | 6.1 | 30 | 1,934 | .5 | -12.4 | 31 | 8.1 | 30 | 2,031 | 15.0 | 8.0 | 04 | 3.7 | 30 | 2,031 | 15.0 | 8.0 | 04 | 3.7 | 30 | 2,031 | 15.0 | 8.0 | 04 | 3.7 | 30 | 2,031 | 15.0 | 8.0 | 04 | 3.7 | | |
| 800 | 30 | 2,314 | -12.2 | -19.9 | 22 | 8.00 | 2,468 | -1.7 | -12.7 | 31 | 9.6 | 30 | 2,526 | 3.5 | -11.8 | 24 | 6.9 | 30 | 2,450 | -2.1 | -14.3 | 30 | 9.7 | 30 | 2,576 | 12.3 | 2.7 | 03 | 2.7 | 30 | 2,576 | 12.3 | 2.7 | 03 | 2.7 | 30 | 2,576 | 12.3 | 2.7 | 03 | 2.7 | 30 | 2,576 | 12.3 | 2.7 | 03 | 2.7 | | |
| 750 | 30 | 2,840 | -14.5 | -22.3 | 23 | 8.70 | 3,013 | -4.8 | -15.0 | 30 | 11.1 | 30 | 3,083 | -7 | -14.8 | 25 | 8.3 | 30 | 2,995 | -5.2 | -16.3 | 30 | 10.4 | 30 | 3,152 | 9.0 | -1.2 | 04 | 2.1 | 30 | 3,152 | 9.0 | -1.2 | 04 | 2.1 | 30 | 3,152 | 9.0 | -1.2 | 04 | 2.1 | 30 | 3,152 | 9.0 | -1.2 | 04 | 2.1 | | |
| 700 | 30 | 3,398 | -17.4 | -25.0 | 23 | 8.70 | 3,593 | -8.2 | -17.7 | 29 | 12.8 | 30 | 3,675 | -2.4 | -17.7 | 25 | 9.8 | 30 | 3,573 | -8.7 | -18.9 | 29 | 12.2 | 29 | 3,762 | 6.0 | -3.7 | 03 | 2.1 | 30 | 3,762 | 6.0 | -3.7 | 03 | 2.1 | 30 | 3,762 | 6.0 | -3.7 | 03 | 2.1 | 30 | 3,762 | 6.0 | -3.7 | 03 | 2.1 | | |
| 650 | 30 | 3,994 | -20.9 | -28.2 | 24 | 10.30 | 4,210 | -11.9 | -21.0 | 29 | 14.5 | 30 | 4,306 | -6.1 | -22.0 | 26 | 11.8 | 30 | 4,290 | -12.1 | -23.2 | 29 | 13.8 | 29 | 4,414 | 2.6 | -9.0 | 02 | 1.6 | 30 | 4,414 | 2.6 | -9.0 | 02 | 1.6 | 30 | 4,414 | 2.6 | -9.0 | 02 | 1.6 | 30 | 4,414 | 2.6 | -9.0 | 02 | 1.6 | | |
| 600 | 30 | 4,632 | -24.8 | -31.6 | 24 | 12.20 | 4,871 | -16.2 | -24.3 | 29 | 15.5 | 30 | 5,008 | -10.4 | -23.5 | 26 | 14.4 | 30 | 4,850 | -16.4 | -28.3 | 29 | 15.0 | 30 | 5,113 | -1.1 | -14.8 | 01 | 1.0 | 30 | 5,113 | -1.1 | -14.8 | 01 | 1.0 | 30 | 5,113 | -1.1 | -14.8 | 01 | 1.0 | 30 | 5,113 | -1.1 | -14.8 | 01 | 1.0 | | |
| 550 | 30 | 5,320 | -29.2 | -35.5 | 23 | 13.40 | 5,582 | -20.8 | -29.0 | 29 | 16.8 | 30 | 5,708 | -15.2 | -27.6 | 26 | 17.3 | 30 | 5,560 | -21.1 | -33.5 | 29 | 17.0 | 30 | 5,888 | -5.5 | -19.8 | 01 | .4 | 30 | 5,888 | -5.5 | -19.8 | 01 | .4 | 30 | 5,888 | -5.5 | -19.8 | 01 | .4 | 30 | 5,888 | -5.5 | -19.8 | 01 | .4 | | |
| 500 | 30 | 6,065 | -34.1 | -39.2 | 23 | 14.00 | 6,353 | -26.1 | -34.3 | 29 | 19.0 | 30 | 6,497 | -20.7 | -32.4 | 26 | 19.8 | 30 | 6,330 | -26.2 | -36.9 | 29 | 19.3 | 30 | 6,687 | -10.3 | -24.4 | 31 | 1.3 | 30 | 6,687 | -10.3 | -24.4 | 31 | 1.3 | 30 | 6,687 | -10.3 | -24.4 | 31 | 1.3 | 30 | 6,687 | -10.3 | -24.4 | 31 | 1.3 | | |
| 450 | 30 | 6,800 | -39.7 | -43.7 | 23 | 15.60 | 7,195 | -32.1 | -40.7 | 29 | 20.7 | 30 | 7,354 | -27.5 | -38.2 | 26 | 23.2 | 30 | 7,172 | -32.1 | -41.6 | 29 | 20.9 | 30 | 7,584 | -16.2 | -30.2 | 29 | 1.7 | 30 | 7,584 | -16.2 | -30.2 | 29 | 1.7 | 30 | 7,584 | -16.2 | -30.2 | 29 | 1.7 | 30 | 7,584 | -16.2 | -30.2 | 29 | 1.7 | | |
| 400 | 30 | 7,585 | -45.1 | | 23 | 16.70 | 8,126 | -39.2 | -45.3 | 29 | 21.8 | 30 | 8,304 | -34.6 | -44.1 | 26 | 25.5 | 30 | 8,104 | -39.2 | -45.8 | 28 | 22.9 | 30 | 8,578 | -23.2 | -36.9 | 26 | 1.7 | 30 | 8,578 | -23.2 | -36.9 | 26 | 1.7 | 30 | 8,578 | -23.2 | -36.9 | 26 | 1.7 | 30 | 8,578 | -23.2 | -36.9 | 26 | 1.7 | | |
| 350 | 30 | 8,800 | -50.6 | | 23 | 17.40 | 9,163 | -46.9 | | 29 | 23.0 | 30 | 9,359 | -43.0 | -48.4 | 27 | 29.1 | 30 | 9,141 | -46.8 | | 28 | 22.5 | 30 | 9,685 | -31.8 | -44.7 | 25 | 4.1 | 30 | 9,685 | -31.8 | -44.7 | 25 | 4.1 | 30 | 9,685 | -31.8 | -44.7 | 25 | 4.1 | 30 | 9,685 | -31.8 | -44.7 | 25 | 4.1 | | |
| 300 | 30 | 9,977 | -56.6 | | 24 | 17.60 | 10,352 | -53.5 | | 29 | 25.8 | 30 | 10,566 | -51.0 | | 27 | 30.8 | 30 | 10,331 | -53.3 | | 28 | 22.3 | 30 | 10,946 | -42.1 | | 25 | 6.2 | 30 | 10,946 | -42.1 | | 25 | 6.2 | 30 | 10,946 | -42.1 | | 25 | 6.2 | 30 | 10,946 | -42.1 | | 25 | 6.2 | | |
| 250 | 30 | 11,397 | -53.6 | | 23 | 18.40 | 11,775 | -56.7 | | 29 | 25.8 | 30 | 11,994 | -58.4 | | 27 | 29.3 | 30 | 11,748 | -55.6 | | 28 | 25.3 | 30 | 12,415 | -54.7 | | 24 | 9.0 | 30 | 12,415 | -54.7 | | 24 | 9.0 | 30 | 12,415 | -54.7 | | 24 | 9.0 | 30 | 12,415 | -54.7 | | 24 | 9.0 | | |
| 200 | 30 | 12,239 | -52.2 | | 24 | 16.70 | 12,621 | -57.2 | | 28 | 27.2 | 30 | 12,830 | -60.5 | | 27 | 29.4 | 30 | 12,601 | -56.4 | | 28 | 24.0 | 30 | 13,257 | -61.1 | | 24 | 11.0 | 30 | 13,257 | -61.1 | | 24 | 11.0 | 30 | 13,257 | -61.1 | | 24 | 11.0 | 30 | 13,257 | -61.1 | | 24 | 11.0 | | |
| 150 | 30 | 13,237 | -52.3 | | 23 | 11.40 | 13,596 | -57.7 | | 29 | 24.6 | 30 | 13,886 | -62.1 | | 27 | 24.3 | 30 | 13,578 | -56.7 | | 28 | 21.1 | 30 | 14,200 | -67.4 | | 24 | 11.2 | 30 | 14,200 | -67.4 | | 24 | 11.2 | 30 | 14,200 | -67.4 | | 24 | 11.2 | 30 | 14,200 | -67.4 | | 24 | 11.2 | | |
| 100 | 30 | 15,877 | -57.7 | | 23 | 12.60 | 14,422 | -59.5 | | 29 | 21.2 | 30 | 16,008 | -61.1 | | 27 | 24.9 | 30 | 15,787 | -56.7 | | 28 | 19.7 | 30 | 16,280 | -77.7 | | 24 | 11.3 | 30 | 16,280 | -77.7 | | 24 | 11.3 | 30 | 16,280 | -77.7 | | 24 | 11.3 | 30 | 16,280 | -77.7 | | 24 | 11.3 | | |
| 50 | 30 | 18,716 | -53.6 | | 23 | 11.10 | 17,511 | -62.4 | | 29 | 13.1 | 30 | 17,627 | -65.1 | | 28 | 10.8 | 25 | 17,499 | -61.1 | | 28 | 12.4 | 29 | 17,836 | -76.9 | | 23 | 3.7 | 30 | 17,836 | -76.9 | | 23 | 3.7 | 30 | 17,836 | -76.9 | | 23 | 3.7 | 30 | 17,836 | -76.9 | | 23 | 3.7 | | |
| 0 | 30 | 18,174 | -53.8 | | 24 | 10.40 | 18,336 | -61.8 | | 29 | 11.4 | 28 | 18,442 | -64.4 | | 28 | 9.1 | 25 | 18,328 | -61.2 | | 28 | 10.3 | 28 | 18,616 | -71.2 | | 24 | 7.1 | 30 | 18,616 | -71.2 | | 24 | 7.1 | 30 | 18,616 | -71.2 | | 24 | 7.1 | 30 | 18,616 | -71.2 | | 24 | 7.1 | | |
| 0 | 30 | 19,163 | -54.7 | | 24 | 10.70 | 19,291 | -61.8 | | 29 | 10.4 | 28 | 19,386 | -63.8 | | 29 | 7.3 | 23 | 19,283 | -60.9 | | 28 | 10.0 | 27 | 19,538 | -67.2 | | 24 | 11.3 | 30 | 19,538 | -67.2 | | 24 | 11.3 | 30 | 19,538 | -67.2 | | 24 | 11.3 | 30 | 19,538 | -67.2 | | 24 | 11.3 | | |
| 0 | 30 | 20,329 | -55.1 | | 24 | 10.50 | 20,420 | -61.5 | | 28 | 8.2 | 24 | 20,511 | -63.0 | | 29 | 5.8 | 23 | 20,404 | -60.4 | | 28 | 8.8 | 23 | 20,654 | -64.7 | | 24 | 11.8 | 30 | 20,654 | -64.7 | | 24 | 11.8 | 30 | 20,654 | -64.7 | | 24 | 11.8 | 30 | 20,654 | -64.7 | | 24 | 11.8 | | |
| 0 | 30 | 21,758 | -56.7 | | 24 | 10.90 | 21,817 | -60.7 | | 28 | 6.6 | 22 | 21,890 | -62.0 | | 31 | 6.4 | 21 | 21,814 | -59.7 | | 28 | 6.8 | 26 | 22,039 | -59.1 | | 24 | 19.5 | 30 | 22,039 | -59.1 | | 24 | 19.5 | 30 | 22,039 | -59.1 | | 24 | 19.5 | 30 | 22,039 | -59.1 | | 24 | 19.5 | | |
| 0 | 30 | 23,591 | -55.6 | | 25 | 11.20 | 23,603 | -58.8 | | 28 | 7.6 | 21 | 23,683 | -59.3 | | 30 | 5.3 | 20 | 23,615 | -58.3 | | 28 | 6.8 | 24 | 23,863 | -54.4 | | 24 | 19.2 | 30 | 23,863 | -54.4 | | 24 | 19.2 | 30 | 23,863 | -54.4 | | 24 | 19.2 | 30 | 23,863 | -54.4 | | 24 | 19.2 | | |
| 0 | 30 | 24,752 | -56.4 | | 26 | 11.30 | 24,748 | -58.1 | | 27 | 9.3 | 20 | 24,835 | -57.8 | | 29 | 5.6 | 19 | 24,761 | -57.6 | | 28 | 9.7 | 24 | 25,042 | -51.0 | | 24 | 16.7 | 30 | 25,042 | -51.0 | | 24 | 16.7 | 30 | 25,042 | -51.0 | | 24 | 16.7 | 30 | 25,042 | -51.0 | | 24 | 16.7 | | |
| 0 | 30 | 26,160 | -57.7 | | 27 | 12.10 | 26,159 | -56.5 | | 27 | 11.1 | 19 | 26,249 | -56.1 | | 27 | 7.7 | 17 | 26,173 | -56.8 | | 27 | 10.8 | 23 | 26,504 | -48.1 | | 24 | 13.0 | 30 | 26,504 | -48.1 | | 24 | 13.0 | 30 | 26,504 | -48.1 | | 24 | 13.0 | 30 | 26,504 | -48.1 | | 24 | 13.0 | | |
| 0 | 30 | 27,971 | -58.7 | | 27 | 16.22 | 27,988 | -55.5 | | 27 | 12.8 | 19 | 28,005 | -54.5 | | 27 | 10.6 | 11 | 28,005 | -54.5 | | 27 | 14.3 | 13 | 28,554 | -47.7 | | 24 | 5.6 | 30 | 28,554 | -47.7 | | 24 | 5.6 | 30 | 28,554 | -47.7 | | 24 | 5.6 | 30 | 28,554 | -47.7 | | 24 | 5.6 | | |
| 0 | 30 | 30,529 | -59.9 | | 28 | 19.3 | | | | | | 17 | 30,676 | -54.5 | | | | | | | | | | 13 | 31,155 | -38.1 | | 12 | 1.1 | 30 | 31,155 | -38.1 | | 12 | 1.1 | 30 | 31,155 | -38.1 | | 12 | 1.1 | 30 | 31,155 | -38.1 | | 12 | 1.1 | | |
| 0 | 30 | 32,770 | -61.8 | | | | | | | | | | | | | | | | | | | | | 7 | 33,641 | -35.3 | | | | | 7 | 33,641 | -35.3 | | | | | | | | | | | | | | | | |

RAWINSONDE DATA

Average monthly values

November 1970

| WALLOPS IS., VA. NASA
1017 MB | | | | | | | | | | WASHINGTON DULLES INT. AP
1007 MB | | | | | | | | | | WAYCROSS, GA.
1014 MB | | | | | | | | | | WINNEMUCCA, NEV.
871 MB | | | | | | | | | | WINSLOW, ARIZ.
854 MB | | | | | | | | | |
|----------------------------------|--|--|--|--|--|--|--|--|--|--------------------------------------|--|--|--|--|--|--|--|--|--|--------------------------------|--|--|--|--|--|--|--|--|--|--------------------------------|--|--|--|--|--|--|--|--|--|--------------------------------|--|--|--|--|--|--|--|--|--|
| Standard pressure surface (mb) | | | | | | | | | | Standard pressure surface (mb) | | | | | | | | | | Standard pressure surface (mb) | | | | | | | | | | Standard pressure surface (mb) | | | | | | | | | | Standard pressure surface (mb) | | | | | | | | | |
| No of observations | | | | | | | | | | No of observations | | | | | | | | | | No of observations | | | | | | | | | | No of observations | | | | | | | | | | No of observations | | | | | | | | | |
| Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | |
| Temperature | | | | | | | | | | Temperature | | | | | | | | | | Temperature | | | | | | | | | | Temperature | | | | | | | | | | Temperature | | | | | | | | | |
| Dew Point † | | | | | | | | | | Dew Point † | | | | | | | | | | Dew Point † | | | | | | | | | | Dew Point † | | | | | | | | | | Dew Point † | | | | | | | | | |
| Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | |
| Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | |
| Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | |
| No of observations | | | | | | | | | | No of observations | | | | | | | | | | No of observations | | | | | | | | | | No of observations | | | | | | | | | | No of observations | | | | | | | | | |
| Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | |
| Temperature | | | | | | | | | | Temperature | | | | | | | | | | Temperature | | | | | | | | | | Temperature | | | | | | | | | | Temperature | | | | | | | | | |
| Dew Point † | | | | | | | | | | Dew Point † | | | | | | | | | | Dew Point † | | | | | | | | | | Dew Point † | | | | | | | | | | Dew Point † | | | | | | | | | |
| Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | |
| Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | |
| Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | |
| No of observations | | | | | | | | | | No of observations | | | | | | | | | | No of observations | | | | | | | | | | No of observations | | | | | | | | | | No of observations | | | | | | | | | |
| Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | |
| Temperature | | | | | | | | | | Temperature | | | | | | | | | | Temperature | | | | | | | | | | Temperature | | | | | | | | | | Temperature | | | | | | | | | |
| Dew Point † | | | | | | | | | | Dew Point † | | | | | | | | | | Dew Point † | | | | | | | | | | Dew Point † | | | | | | | | | | Dew Point † | | | | | | | | | |
| Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | |
| Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | |
| Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | |
| No of observations | | | | | | | | | | No of observations | | | | | | | | | | No of observations | | | | | | | | | | No of observations | | | | | | | | | | No of observations | | | | | | | | | |
| Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | |
| Temperature | | | | | | | | | | Temperature | | | | | | | | | | Temperature | | | | | | | | | | Temperature | | | | | | | | | | Temperature | | | | | | | | | |
| Dew Point † | | | | | | | | | | Dew Point † | | | | | | | | | | Dew Point † | | | | | | | | | | Dew Point † | | | | | | | | | | Dew Point † | | | | | | | | | |
| Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | |
| Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | |
| Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | |
| No of observations | | | | | | | | | | No of observations | | | | | | | | | | No of observations | | | | | | | | | | No of observations | | | | | | | | | | No of observations | | | | | | | | | |
| Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | |
| Temperature | | | | | | | | | | Temperature | | | | | | | | | | Temperature | | | | | | | | | | Temperature | | | | | | | | | | Temperature | | | | | | | | | |
| Dew Point † | | | | | | | | | | Dew Point † | | | | | | | | | | Dew Point † | | | | | | | | | | Dew Point † | | | | | | | | | | Dew Point † | | | | | | | | | |
| Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | |
| Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | |
| Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | |
| No of observations | | | | | | | | | | No of observations | | | | | | | | | | No of observations | | | | | | | | | | No of observations | | | | | | | | | | No of observations | | | | | | | | | |
| Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | |
| Temperature | | | | | | | | | | Temperature | | | | | | | | | | Temperature | | | | | | | | | | Temperature | | | | | | | | | | Temperature | | | | | | | | | |
| Dew Point † | | | | | | | | | | Dew Point † | | | | | | | | | | Dew Point † | | | | | | | | | | Dew Point † | | | | | | | | | | Dew Point † | | | | | | | | | |
| Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | |
| Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | |
| Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | |
| No of observations | | | | | | | | | | No of observations | | | | | | | | | | No of observations | | | | | | | | | | No of observations | | | | | | | | | | No of observations | | | | | | | | | |
| Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | |
| Temperature | | | | | | | | | | Temperature | | | | | | | | | | Temperature | | | | | | | | | | Temperature | | | | | | | | | | Temperature | | | | | | | | | |
| Dew Point † | | | | | | | | | | Dew Point † | | | | | | | | | | Dew Point † | | | | | | | | | | Dew Point † | | | | | | | | | | Dew Point † | | | | | | | | | |
| Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | |
| Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | |
| Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | |
| No of observations | | | | | | | | | | No of observations | | | | | | | | | | No of observations | | | | | | | | | | No of observations | | | | | | | | | | No of observations | | | | | | | | | |
| Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | |
| Temperature | | | | | | | | | | Temperature | | | | | | | | | | Temperature | | | | | | | | | | Temperature | | | | | | | | | | Temperature | | | | | | | | | |
| Dew Point † | | | | | | | | | | Dew Point † | | | | | | | | | | Dew Point † | | | | | | | | | | Dew Point † | | | | | | | | | | Dew Point † | | | | | | | | | |
| Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | |
| Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | |
| Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | |
| No of observations | | | | | | | | | | No of observations | | | | | | | | | | No of observations | | | | | | | | | | No of observations | | | | | | | | | | No of observations | | | | | | | | | |
| Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | |
| Temperature | | | | | | | | | | Temperature | | | | | | | | | | Temperature | | | | | | | | | | Temperature | | | | | | | | | | Temperature | | | | | | | | | |
| Dew Point † | | | | | | | | | | Dew Point † | | | | | | | | | | Dew Point † | | | | | | | | | | Dew Point † | | | | | | | | | | Dew Point † | | | | | | | | | |
| Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | |
| Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | |
| Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | |
| No of observations | | | | | | | | | | No of observations | | | | | | | | | | No of observations | | | | | | | | | | No of observations | | | | | | | | | | No of observations | | | | | | | | | |
| Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | |
| Temperature | | | | | | | | | | Temperature | | | | | | | | | | Temperature | | | | | | | | | | Temperature | | | | | | | | | | Temperature | | | | | | | | | |
| Dew Point † | | | | | | | | | | Dew Point † | | | | | | | | | | Dew Point † | | | | | | | | | | Dew Point † | | | | | | | | | | Dew Point † | | | | | | | | | |
| Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | |
| Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | |
| Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | |
| No of observations | | | | | | | | | | No of observations | | | | | | | | | | No of observations | | | | | | | | | | No of observations | | | | | | | | | | No of observations | | | | | | | | | |
| Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | |
| Temperature | | | | | | | | | | Temperature | | | | | | | | | | Temperature | | | | | | | | | | Temperature | | | | | | | | | | Temperature | | | | | | | | | |
| Dew Point † | | | | | | | | | | Dew Point † | | | | | | | | | | Dew Point † | | | | | | | | | | Dew Point † | | | | | | | | | | Dew Point † | | | | | | | | | |
| Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | |
| Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | |
| Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | |
| No of observations | | | | | | | | | | No of observations | | | | | | | | | | No of observations | | | | | | | | | | No of observations | | | | | | | | | | No of observations | | | | | | | | | |
| Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | |
| Temperature | | | | | | | | | | Temperature | | | | | | | | | | Temperature | | | | | | | | | | Temperature | | | | | | | | | | Temperature | | | | | | | | | |
| Dew Point † | | | | | | | | | | Dew Point † | | | | | | | | | | Dew Point † | | | | | | | | | | Dew Point † | | | | | | | | | | Dew Point † | | | | | | | | | |
| Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | |
| Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | |
| Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | |
| No of observations | | | | | | | | | | No of observations | | | | | | | | | | No of observations | | | | | | | | | | No of observations | | | | | | | | | | No of observations | | | | | | | | | |
| Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | |
| Temperature | | | | | | | | | | Temperature | | | | | | | | | | Temperature | | | | | | | | | | Temperature | | | | | | | | | | Temperature | | | | | | | | | |
| Dew Point † | | | | | | | | | | Dew Point † | | | | | | | | | | Dew Point † | | | | | | | | | | Dew Point † | | | | | | | | | | Dew Point † | | | | | | | | | |
| Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | |
| Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | |
| Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | |
| No of observations | | | | | | | | | | No of observations | | | | | | | | | | No of observations | | | | | | | | | | No of observations | | | | | | | | | | No of observations | | | | | | | | | |
| Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | |
| Temperature | | | | | | | | | | Temperature | | | | | | | | | | Temperature | | | | | | | | | | Temperature | | | | | | | | | | Temperature | | | | | | | | | |
| Dew Point † | | | | | | | | | | Dew Point † | | | | | | | | | | Dew Point † | | | | | | | | | | Dew Point † | | | | | | | | | | Dew Point † | | | | | | | | | |
| Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | |
| Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | |
| Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | |
| No of observations | | | | | | | | | | No of observations | | | | | | | | | | No of observations | | | | | | | | | | No of observations | | | | | | | | | | No of observations | | | | | | | | | |
| Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | |
| Temperature | | | | | | | | | | Temperature | | | | | | | | | | Temperature | | | | | | | | | | Temperature | | | | | | | | | | Temperature | | | | | | | | | |
| Dew Point † | | | | | | | | | | Dew Point † | | | | | | | | | | Dew Point † | | | | | | | | | | Dew Point † | | | | | | | | | | Dew Point † | | | | | | | | | |
| Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | |
| Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | |
| Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | |
| No of observations | | | | | | | | | | No of observations | | | | | | | | | | No of observations | | | | | | | | | | No of observations | | | | | | | | | | No of observations | | | | | | | | | |
| Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | |
| Temperature | | | | | | | | | | Temperature | | | | | | | | | | Temperature | | | | | | | | | | Temperature | | | | | | | | | | Temperature | | | | | | | | | |
| Dew Point † | | | | | | | | | | Dew Point † | | | | | | | | | | Dew Point † | | | | | | | | | | Dew Point † | | | | | | | | | | Dew Point † | | | | | | | | | |
| Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | |
| Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | |
| Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | |
| No of observations | | | | | | | | | | No of observations | | | | | | | | | | No of observations | | | | | | | | | | No of observations | | | | | | | | | | No of observations | | | | | | | | | |
| Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | |
| Temperature | | | | | | | | | | Temperature | | | | | | | | | | Temperature | | | | | | | | | | Temperature | | | | | | | | | | Temperature | | | | | | | | | |
| Dew Point † | | | | | | | | | | Dew Point † | | | | | | | | | | Dew Point † | | | | | | | | | | Dew Point † | | | | | | | | | | Dew Point † | | | | | | | | | |
| Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | |
| Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | |
| Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | |
| No of observations | | | | | | | | | | No of observations | | | | | | | | | | No of observations | | | | | | | | | | No of observations | | | | | | | | | | No of observations | | | | | | | | | |
| Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | |
| Temperature | | | | | | | | | | Temperature | | | | | | | | | | Temperature | | | | | | | | | | Temperature | | | | | | | | | | Temperature | | | | | | | | | |
| Dew Point † | | | | | | | | | | Dew Point † | | | | | | | | | | Dew Point † | | | | | | | | | | Dew Point † | | | | | | | | | | Dew Point † | | | | | | | | | |
| Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | |
| Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | |
| Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | |
| No of observations | | | | | | | | | | No of observations | | | | | | | | | | No of observations | | | | | | | | | | No of observations | | | | | | | | | | No of observations | | | | | | | | | |
| Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | |
| Temperature | | | | | | | | | | Temperature | | | | | | | | | | Temperature | | | | | | | | | | Temperature | | | | | | | | | | Temperature | | | | | | | | | |
| Dew Point † | | | | | | | | | | Dew Point † | | | | | | | | | | Dew Point † | | | | | | | | | | Dew Point † | | | | | | | | | | Dew Point † | | | | | | | | | |
| Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | |
| Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | |
| Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | |
| No of observations | | | | | | | | | | No of observations | | | | | | | | | | No of observations | | | | | | | | | | No of observations | | | | | | | | | | No of observations | | | | | | | | | |
| Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | |
| Temperature | | | | | | | | | | Temperature | | | | | | | | | | Temperature | | | | | | | | | | Temperature | | | | | | | | | | Temperature | | | | | | | | | |
| Dew Point † | | | | | | | | | | Dew Point † | | | | | | | | | | Dew Point † | | | | | | | | | | Dew Point † | | | | | | | | | | Dew Point † | | | | | | | | | |
| Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | |
| Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | |
| Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | |
| No of observations | | | | | | | | | | No of observations | | | | | | | | | | No of observations | | | | | | | | | | No of observations | | | | | | | | | | No of observations | | | | | | | | | |
| Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | |
| Temperature | | | | | | | | | | Temperature | | | | | | | | | | Temperature | | | | | | | | | | Temperature | | | | | | | | | | Temperature | | | | | | | | | |
| Dew Point † | | | | | | | | | | Dew Point † | | | | | | | | | | Dew Point † | | | | | | | | | | Dew Point † | | | | | | | | | | Dew Point † | | | | | | | | | |
| Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | |
| Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | |
| Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | |
| No of observations | | | | | | | | | | No of observations | | | | | | | | | | No of observations | | | | | | | | | | No of observations | | | | | | | | | | No of observations | | | | | | | | | |
| Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | |
| Temperature | | | | | | | | | | Temperature | | | | | | | | | | Temperature | | | | | | | | | | Temperature | | | | | | | | | | Temperature | | | | | | | | | |
| Dew Point † | | | | | | | | | | Dew Point † | | | | | | | | | | Dew Point † | | | | | | | | | | Dew Point † | | | | | | | | | | Dew Point † | | | | | | | | | |
| Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | |
| Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | |
| Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | |
| No of observations | | | | | | | | | | No of observations | | | | | | | | | | No of observations | | | | | | | | | | No of observations | | | | | | | | | | No of observations | | | | | | | | | |
| Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | |
| Temperature | | | | | | | | | | Temperature | | | | | | | | | | Temperature | | | | | | | | | | Temperature | | | | | | | | | | Temperature | | | | | | | | | |
| Dew Point † | | | | | | | | | | Dew Point † | | | | | | | | | | Dew Point † | | | | | | | | | | Dew Point † | | | | | | | | | | Dew Point † | | | | | | | | | |
| Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | |
| Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | |
| Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | |
| No of observations | | | | | | | | | | No of observations | | | | | | | | | | No of observations | | | | | | | | | | No of observations | | | | | | | | | | No of observations | | | | | | | | | |
| Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | |
| Temperature | | | | | | | | | | Temperature | | | | | | | | | | Temperature | | | | | | | | | | Temperature | | | | | | | | | | Temperature | | | | | | | | | |
| Dew Point † | | | | | | | | | | Dew Point † | | | | | | | | | | Dew Point † | | | | | | | | | | Dew Point † | | | | | | | | | | Dew Point † | | | | | | | | | |
| Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | |
| Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | |
| Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | |
| No of observations | | | | | | | | | | No of observations | | | | | | | | | | No of observations | | | | | | | | | | No of observations | | | | | | | | | | No of observations | | | | | | | | | |
| Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | |
| Temperature | | | | | | | | | | Temperature | | | | | | | | | | Temperature | | | | | | | | | | Temperature | | | | | | | | | | Temperature | | | | | | | | | |
| Dew Point † | | | | | | | | | | Dew Point † | | | | | | | | | | Dew Point † | | | | | | | | | | Dew Point † | | | | | | | | | | Dew Point † | | | | | | | | | |
| Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | |
| Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | |
| Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | |
| No of observations | | | | | | | | | | No of observations | | | | | | | | | | No of observations | | | | | | | | | | No of observations | | | | | | | | | | No of observations | | | | | | | | | |
| Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | |
| Temperature | | | | | | | | | | Temperature | | | | | | | | | | Temperature | | | | | | | | | | Temperature | | | | | | | | | | Temperature | | | | | | | | | |
| Dew Point † | | | | | | | | | | Dew Point † | | | | | | | | | | Dew Point † | | | | | | | | | | Dew Point † | | | | | | | | | | Dew Point † | | | | | | | | | |
| Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | |
| Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | |
| Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | |
| No of observations | | | | | | | | | | No of observations | | | | | | | | | | No of observations | | | | | | | | | | No of observations | | | | | | | | | | No of observations | | | | | | | | | |
| Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | |
| Temperature | | | | | | | | | | Temperature | | | | | | | | | | Temperature | | | | | | | | | | Temperature | | | | | | | | | | Temperature | | | | | | | | | |
| Dew Point † | | | | | | | | | | Dew Point † | | | | | | | | | | Dew Point † | | | | | | | | | | Dew Point † | | | | | | | | | | Dew Point † | | | | | | | | | |
| Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | |
| Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | |
| Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | |
| No of observations | | | | | | | | | | No of observations | | | | | | | | | | No of observations | | | | | | | | | | No of observations | | | | | | | | | | No of observations | | | | | | | | | |
| Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | | Dynamic height | | | | | | | | | |
| Temperature | | | | | | | | | | Temperature | | | | | | | | | | Temperature | | | | | | | | | | Temperature | | | | | | | | | | Temperature | | | | | | | | | |
| Dew Point † | | | | | | | | | | Dew Point † | | | | | | | | | | Dew Point † | | | | | | | | | | Dew Point † | | | | | | | | | | Dew Point † | | | | | | | | | |
| Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | | Direction | | | | | | | | | |
| Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | | Speed M.p.h. | | | | | | | | | | | | | | | | | | | |

SOLAR RADIATION INTENSITIES

Tabulated in langley's per minute on a surface normal to the direction of the sun.

NOVEMBER 1970

| | Sun's zenith distance | | | | | | | | |
|----------------------|-----------------------|--------|--------|--------|--------|--------|--------|--------|--------|
| Date | A. M. | | | | * | P. M. | | | |
| | 78.7° | 75.7° | 70.7° | 60.0° | | 60.0° | 70.7° | 75.7° | 78.7° |
| ALBUQUERQUE, N. MEX. | | | | | | | | | |
| | Air mass | | | | | | | | |
| | 4.1 | 3.35 | 2.51 | 1.67 | * | 1.67 | 2.51 | 3.35 | 4.19 |
| NOV. 1 | 1.00 | 1.12 | 1.24 | 1.36 | 1.44 | 1.36 | 1.20 | 1.02 | 0.90 |
| 2 | (1.01) | (1.04) | (1.16) | (1.28) | (1.28) | (1.18) | (1.08) | (0.93) | (0.81) |
| 3 | .94 | 1.04 | 1.16 | 1.28 | 1.37 | 1.26 | 1.14 | .88 | .76 |
| 4 | .88 | .95 | 1.07 | | | | .96 | .78 | |
| 5 | .96 | 1.05 | 1.19 | | 1.40 | 1.15 | 1.06 | .96 | |
| 6 | 1.03 | 1.12 | 1.23 | (1.25) | 1.42 | 1.35 | 1.19 | 1.06 | .96 |
| 7 | | | (1.20) | (1.28) | | (1.35) | 1.19 | (1.07) | .96 |
| 8 | | | (1.20) | (1.36) | | | | | |
| 9 | 1.03 | 1.12 | (1.20) | 1.35 | 1.35 | 1.28 | 1.15 | 1.00 | .89 |
| 10 | (0.94) | (1.07) | | 1.35 | 1.37 | (1.25) | 1.01 | .85 | .74 |
| 11 | 1.04 | 1.15 | 1.26 | 1.41 | 1.47 | 1.39 | 1.25 | 1.14 | 1.04 |
| 12 | (0.90) | (1.07) | (1.18) | (1.34) | (1.47) | | | | |
| 13 | 1.01 | 1.11 | 1.21 | 1.40 | 1.43 | 1.39 | 1.27 | 1.16 | 1.07 |
| 14 | (1.01) | (1.13) | | | | (1.17) | (1.04) | (0.91) | |
| 15 | 1.11 | 1.20 | 1.30 | 1.43 | 1.47 | 1.43 | 1.29 | 1.17 | 1.07 |
| 16 | 1.06 | 1.15 | (1.24) | (1.32) | (1.41) | (1.38) | (1.20) | (1.09) | 1.01 |
| 17 | 1.06 | 1.15 | 1.27 | (1.37) | 1.41 | | (1.14) | (0.97) | |
| 18 | (0.81) | (0.92) | (1.05) | (1.29) | (1.31) | (1.14) | (1.01) | (0.97) | (0.76) |
| 19 | (0.96) | (1.09) | (1.18) | (1.34) | (1.37) | | | | |
| 20 | | | | | | (1.23) | (1.13) | (1.02) | |
| 21 | (1.01) | (1.12) | (1.23) | (1.39) | (1.42) | (1.36) | (1.22) | | |
| 22 | | | | | (1.27) | | | (0.97) | (0.87) |
| 23 | (0.95) | | | | | (0.99) | (0.91) | | |
| 24 | (1.01) | | | | (1.20) | 1.21 | 1.10 | .89 | |
| 25 | 1.00 | 1.09 | 1.20 | | (1.27) | 1.28 | 1.20 | 1.11 | |
| 26 | 1.01 | 1.10 | 1.21 | 1.37 | 1.41 | 1.35 | 1.19 | 1.06 | 0.95 |

OMAHA, NEBR.

| | Air mass | | | | | | | | |
|----------|----------|--------|--------|--------|--------|--------|--------|--------|--------|
| | 4.78 | 3.82 | 2.87 | 1.91 | * | 1.91 | 2.87 | 3.82 | 4.78 |
| NOV. 1 | | | 1.00 | 1.17 | | | | | |
| 2 | | | | | | 1.20 | 0.96 | 0.86 | |
| 3 | .98 | 1.04 | 1.16 | 1.32 | HS1.34 | HS1.32 | 1.17 | 1.00 | .84 |
| 4 | | | | 1.24 | HS1.26 | HS1.24 | HS1.06 | HS .94 | HS .74 |
| 5 | HS .99 | HS1.08 | HS1.18 | HS1.31 | HS1.31 | HS1.30 | 1.08 | .90 | .82 |
| 6 | .94 | 1.04 | 1.17 | | 1.28 | | HS1.18 | | |
| 7 | | | | | | | | 1.08 | HS .98 |
| 8 | | | | | | | | | |
| 9 | | | | | | | | | |
| 10 | | | | | | | | | |
| 11 | | | | | | | | | |
| 12 | | | | | | | | | |
| 13 | | | | | | | | | |
| 14 | | | | | | | | | |
| 15 | | | | | | | | | |
| 16 | | | | | | | | | |
| 17 | | | | | | | | | |
| 18 | | | | | | | | | |
| 19 | | | | | | | | | |
| 20 | | | | | | | | | |
| 21 | | | | | | | | | |
| 22 | | | | | | | | | |
| 23 | | | | | | | | | |
| 24 | | | | | | | | | |
| 25 | | | | | | | | | |
| 26 | | | | | | | | | |
| 27 | | | | | | | | | |
| 28 | | | | | | | | | |
| 29 | | | | | | | | | |
| 30 | | | | | | | | | |
| AVG-AGES | .98 | 3.05 | 1.13 | 1.28 | 1.29 | 1.28 | 1.12 | 0.98 | 0.85 |

Langley is the unit used to denote one gram calorie per square centimeter. An explanation of the formula used in computing the air mass values for each station listed above appears

| | Sun's zenith distance | | | | | | | | |
|---------------|-----------------------|-------|-------|-------|------|-------|-------|-------|-------|
| Date | A. M. | | | | * | P. M. | | | |
| | 78.7° | 75.7° | 70.7° | 60.0° | | 60.0° | 70.7° | 75.7° | 78.7° |
| TUCSON, ARIZ. | | | | | | | | | |
| | Air mass | | | | | | | | |
| | 4.56 | 3.65 | 2.74 | 1.83 | * | 1.83 | 2.74 | 3.65 | 4.56 |
| NOV. | | | | | | | | | |
| 1 | 0.90 | 1.01 | 1.10 | 1.24 | | | | | |
| 2 | .84 | .92 | 1.06 | 1.19 | | | | | |
| 3 | .75 | .87 | 1.02 | 1.18 | | 1.17 | 1.02 | .88 | .76 |
| 4 | .60 | .89 | 1.03 | 1.17 | | 1.19 | .99 | .81 | .67 |
| 5 | .79 | .87 | 1.03 | 1.20 | | 1.30 | 1.17 | .99 | .82 |
| 6 | .87 | .96 | 1.04 | 1.22 | | 1.31 | 1.18 | 1.03 | .93 |
| 7 | .89 | .99 | 1.11 | 1.28 | | 1.36 | 1.29 | 1.13 | .99 |
| 8 | .96 | 1.03 | 1.16 | 1.31 | | 1.39 | 1.28 | 1.07 | .96 |
| 9 | .94 | 1.03 | 1.11 | 1.23 | | | 1.24 | | |
| 10 | .91 | 1.02 | 1.13 | 1.26 | | 1.37 | 1.24 | 1.06 | .98 |
| 11 | .92 | .99 | 1.11 | 1.29 | | 1.33 | 1.28 | 1.11 | .98 |
| 12 | .87 | .98 | 1.08 | 1.24 | | 1.39 | 1.27 | 1.10 | 1.00 |
| 13 | .91 | 1.01 | 1.13 | 1.25 | | 1.32 | 1.28 | 1.13 | 1.03 |
| 14 | .98 | 1.03 | 1.13 | 1.27 | | 1.35 | 1.23 | 1.10 | .97 |
| 15 | 1.00 | 1.08 | 1.19 | 1.33 | | 1.38 | 1.29 | 1.02 | .92 |
| 16 | .82 | .92 | 1.06 | 1.26 | | 1.35 | 1.22 | 1.05 | .95 |
| 17 | .85 | .94 | 1.08 | 1.20 | | 1.18 | 1.01 | .90 | .79 |
| 18 | .86 | .96 | 1.07 | 1.20 | | 1.31 | 1.19 | 1.03 | .90 |
| 19 | .87 | .96 | 1.09 | | | | 1.04 | .91 | .83 |
| 20 | .92 | 1.02 | 1.14 | 1.28 | | 1.35 | 1.22 | 1.08 | .97 |
| 21 | .90 | .92 | 1.10 | 1.27 | | 1.36 | 1.28 | 1.11 | 1.00 |
| 22 | .91 | 1.01 | 1.12 | 1.21 | | 1.25 | 1.19 | 1.02 | .88 |
| 23 | .93 | .93 | 1.03 | 1.18 | | 1.29 | 1.20 | 1.04 | .94 |
| 24 | .98 | 1.03 | 1.14 | 1.21 | | 1.30 | 1.25 | 1.08 | 1.00 |
| 25 | .90 | 1.00 | 1.11 | 1.20 | | | | | |
| 26 | .88 | .98 | 1.10 | 1.25 | | 1.31 | 1.27 | 1.13 | 1.03 |
| 27 | | | | | | 1.32 | 1.29 | | .91 |
| 28 | | | | | | 1.35 | 1.29 | | |
| 29 | | 1.09 | 1.17 | 1.32 | | | | | |
| AVG-AGES | .98 | .98 | 1.10 | 1.24 | 1.33 | 1.23 | 1.04 | .88 | .84 |

MADISON, WIS.

| | Air mass | | | | | | | | |
|----------|----------|-------|-------|-------|-------|-------|-------|-------|-------|
| | 4.69 | 3.75 | 2.81 | 1.88 | * | 1.88 | 2.81 | 3.75 | 4.69 |
| NOV. 1 | | | | | | | | | |
| 2 | | | | | | | | | |
| 3 | | | | | | | | | |
| 4 | | | | | | | | | |
| 5 | 50.81 | 50.91 | 51.06 | 51.25 | 51.28 | 51.19 | 51.18 | 51.12 | 50.90 |
| 6 | 50.95 | 51.04 | 51.09 | | | | | | |
| 7 | | | | | | | | | |
| 8 | | | | | | | | | |
| 9 | | | | | | | | | |
| 10 | | | | | | | | | |
| 11 | | | | | | | | | |
| 12 | | | | | | | | | |
| 13 | | | | | | | | | |
| 14 | | | | | | | | | |
| 15 | | | | | | | | | |
| 16 | | | | | | | | | |
| 17 | | | | | | | | | |
| 18 | | | | | | | | | |
| 19 | | | | | | | | | |
| 20 | | | | | | | | | |
| 21 | | | | | | | | | |
| 22 | | | | | | | | | |
| 23 | | | | | | | | | |
| 24 | | | | | | | | | |
| 25 | | | | | | | | | |
| 26 | | | | | | | | | |
| 27 | | | | | | | | | |
| 28 | | | | | | | | | |
| 29 | | | | | | | | | |
| 30 | | | | | | | | | |
| AVG-AGES | 0.88 | 0.98 | 1.08 | 1.25 | 1.23 | 1.28 | 1.12 | 1.01 | 0.90 |

1) PRESENT S SLIGHT HAZE - INDETERMINABLE
HS SLIGHT HAZE * VALUES CORRESPONDING TO TRUE SOLAR NOON

In the February 1971 issue Vol. 5, No. 2, page 87, 88 & publication

daily totals and monthly averages of solar radiation (direct and diffuse) received on a horizontal surface tabulated in langley's.

Day of month

[illegible]

Note. --Langley is the unit used to denote one gram calorie per square centimeter. Values with an asterisk are interpolated.

The solar radiation data in this table form the basis for the analyses in Charts VII. A. and B. of this publication. The analyses include adjustments required to bring station records to approximately the same level of calibration.

U Indicates Urban sites.

NOVEMBER 1970

Daily totals and monthly averages of solar radiation (direct and diffuse) received on a horizontal surface, tabulated in langleys.

Note. --langley is the unit used to denote one gram calorie per square centimeter. Values with an asterisk are interpolated.

The solar radiation data in this table form the basis for the analyses in Charts VII. A, and B, of this publication. The analyses include adjustments required to bring station records to approximately the same level of calibration.

NET RADIATION

Net radiation in langbeys per day (8 a.m. to 8 a.m.) at Palmer, Alaska.

| Date, . . . | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | Avg. |
|---------------|-----|-----|---|-----|-----|-----|------|------|------|------|-----|------|------|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|----|-----|-----|-----|-----|-----|-----|------|
| Langbeys, . . | -27 | -33 | 0 | -55 | -59 | -64 | -131 | -106 | -151 | -107 | -68 | -109 | -133 | -72 | -70 | -81 | -77 | -57 | -40 | -138 | -15 | -11 | -17 | -23 | -2 | -13 | -20 | -17 | -44 | -43 | -47 | |

The measurement is made with a (SIRO FUNK net exchange radiometer over a pigmentation of all wave lengths. These data are from an U - V-Eppley total ultra violet sensor and Speedmax H (Leeds Northrup) Recorder. It is at the same location (Agronomy Building, Iowa State University, Ames) as the published total solar radiation instrumentation. This instrument has not been checked by the NOAA, National Weather Service.

SOLAR ULTRA-VIOLET RADIATION DATA

Daily totals and monthly average (< 3900 Å) at Ames, Iowa.

| Date, . . . | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | Avg. |
|---------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----|----|----|----|----|----|----|----|----|----|----|------|
| Langbeys, . . | 4.44 | 3.65 | 2.96 | 8.58 | 8.68 | 8.29 | 4.54 | 4.24 | 2.27 | 7.00 | 3.84 | 0.88 | 1.18 | 3.35 | 7.30 | 6.81 | 5.32 | 4.04 | 1.08 | 6.02 | | | | | | | | | | | | |

These data are from an U - V-Eppley total ultra violet sensor and Speedmax H (Leeds Northrup) Recorder. It is at the same location (Agronomy Building, Iowa State University, Ames) as the published total solar radiation instrumentation. This instrument has not been checked by the NOAA, National Weather Service.

TOTAL OZONE DATA

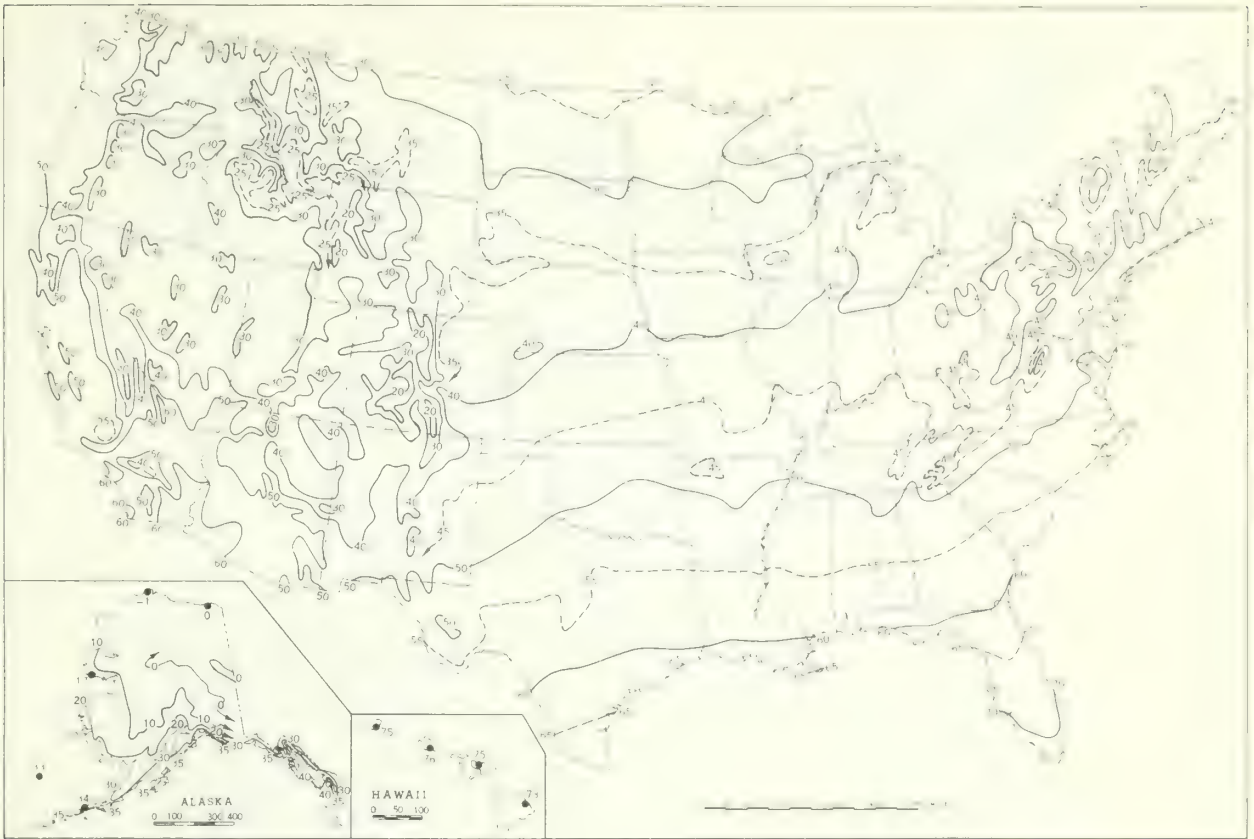
These provisional ozone data are obtained from measurements made with a Dobson ozone spectrophotometer, and are applicable approximately to local apparent noon. The data are presented in the code < s > < p > < d > defined in the August 1962 WMO circular entitled "PUBLICATION OF DATA FOR METEOROLOGICAL RESEARCH, WORLD OZONE DATA."

Units: Milli-atmo-cms.

| Station | Day of month | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Mean | O ₃ | |
|---------------------|--------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------------|-----|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | | | |
| AMUNDSEN-SCOTT | 20278 | 32326 | 20296 | 20292 | - | - | - | - | - | - | - | - | - | - | - | - | 06333 | 00287 | - | - | 06335 | 06349 | - | - | - | 00336 | 00366 | - | - | - | - | 298 | | |
| BEDFORD, MASS. | - | 05311 | 00317 | 06331 | - | - | - | - | - | 00305 | 05325 | - | 05293 | 05326 | - | - | 00337 | 35369 | 00430 | 05380 | 06364 | - | - | - | 35377 | - | 35381 | 36432 | - | - | 05138 | 325 | | |
| BISMARCK, N.D. | - | 00335 | 00339 | 05342 | 00349 | 00287 | 05353 | - | 00339 | - | 00367 | 00360 | 00323 | 04350 | - | - | 00300 | 00266 | 00327 | 00292 | 00318 | - | - | - | 00285 | 00273 | 00297 | - | - | 02478 | 00432 | 378 | | |
| BREITENBURG, IOWA | 00316 | 00331 | 00307 | 03300 | 00287 | 05342 | 05353 | - | 00339 | - | 00367 | 00360 | 00323 | 04350 | - | - | 00300 | 00266 | 00327 | 00292 | 00318 | - | - | - | 00285 | 00273 | 00297 | - | - | 02478 | 00432 | 378 | | |
| BREITENBURG, IOWA | 00316 | 00331 | 00307 | 03300 | 00287 | 05342 | 05353 | - | 00339 | - | 00367 | 00360 | 00323 | 04350 | - | - | 00300 | 00266 | 00327 | 00292 | 00318 | - | - | - | 00285 | 00273 | 00297 | - | - | 02478 | 00432 | 378 | | |
| GREEN BAY, WIS. | 05350 | 05363 | 05355 | 05318 | 00292 | 05334 | 05327 | 00326 | 00326 | 00326 | 00326 | 00326 | 00326 | 00326 | 00326 | 00326 | 00326 | 00326 | 00326 | 00326 | 00326 | 00326 | 00326 | 00326 | 00326 | 00326 | 00326 | 00326 | 00326 | 00326 | 00326 | 00326 | 307 | |
| HUANCAVO, PERU | 00276 | 00275 | 00279 | 00271 | 00274 | 00266 | 00264 | 00264 | 00264 | 00264 | 00264 | 00264 | 00264 | 00264 | 00264 | 00264 | 00264 | 00264 | 00264 | 00264 | 00264 | 00264 | 00264 | 00264 | 00264 | 00264 | 00264 | 00264 | 00264 | 00264 | 00264 | 00264 | 335 | |
| KAUNUA LOA, HAWAII | - | 00270 | - | 06291 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 268 | |
| NASHVILLE, TENN. | - | 05347 | 04360 | 00348 | 00300 | 00311 | 00299 | 00302 | - | 35295 | 34329 | 04355 | 07303 | - | - | 00263 | 00267 | 00267 | 00266 | 00266 | 00266 | 00266 | 00266 | 00266 | 00266 | 00266 | 00266 | 00266 | 00266 | 00266 | 00266 | 00266 | 00266 | 265 |
| WALLOPS ISLAND, VA. | 00288 | 00304 | 02310 | 00316 | 00320 | - | 00314 | 00293 | 00289 | 05269 | - | 04280 | 00290 | 05258 | 00291 | 00285 | - | - | 00326 | 00317 | 00318 | 00318 | 00318 | 00318 | 00318 | 00318 | 00318 | 00318 | 00318 | 00318 | 00318 | 00318 | 00318 | 300 |

The spectrophotometer measures the total amount of ozone in the atmosphere, i.e., the amount contained in a vertical column of air extending from ground level to the top of the atmosphere in the vicinity of the station. The amount of ozone in this column (coded < s > < p > < d >) is expressed in terms of a thickness of a layer it would occupy at standard temperature and pressure. e.g., 350 milli-atmo-cm ozone implies an ozone layer 0.350 centimeter thick. The code < s > < p > < d > designates the type of measurement made.

Chart 1. A. Normal Daily Average Temperature (°F. 1931-60), November



B. Temperature Departure from 30 - Year Mean (°F 1931-60), November 1970.

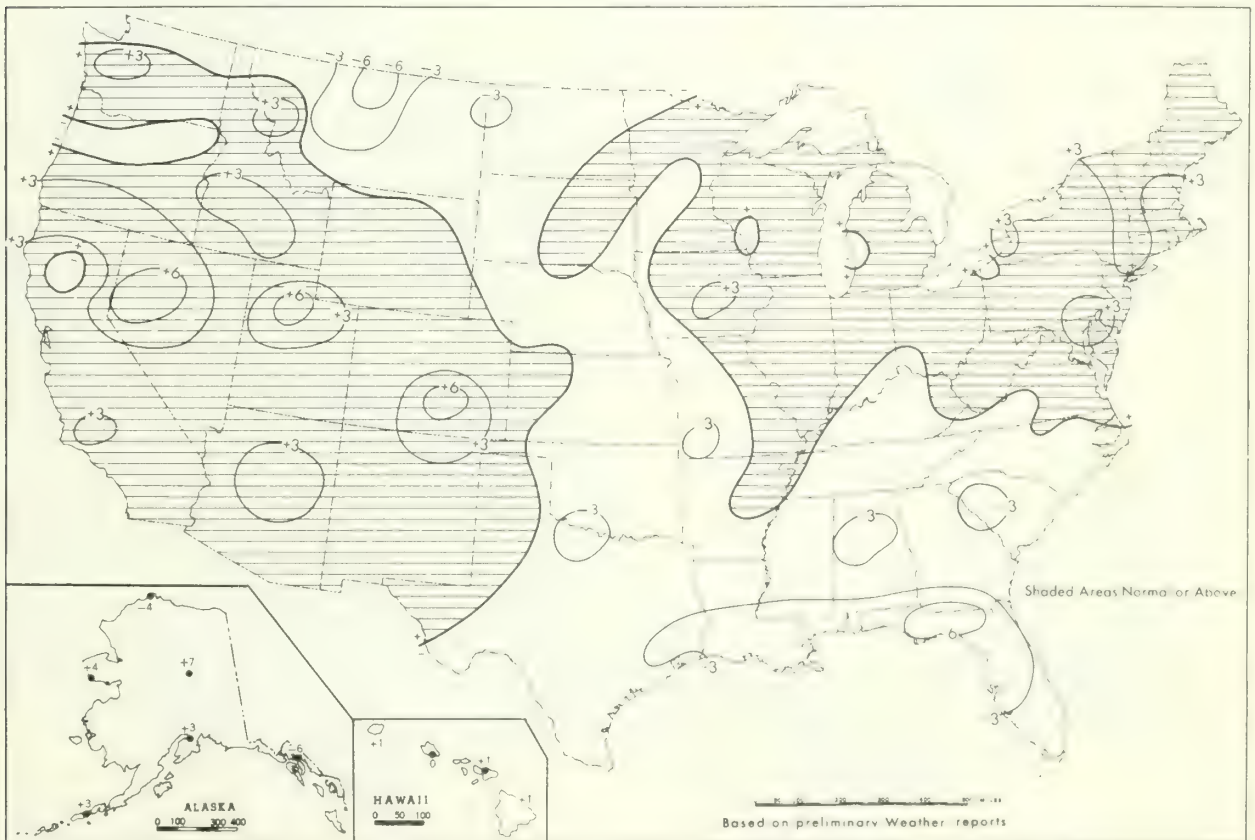


Chart II. Total Precipitation (Inches), November 1970.

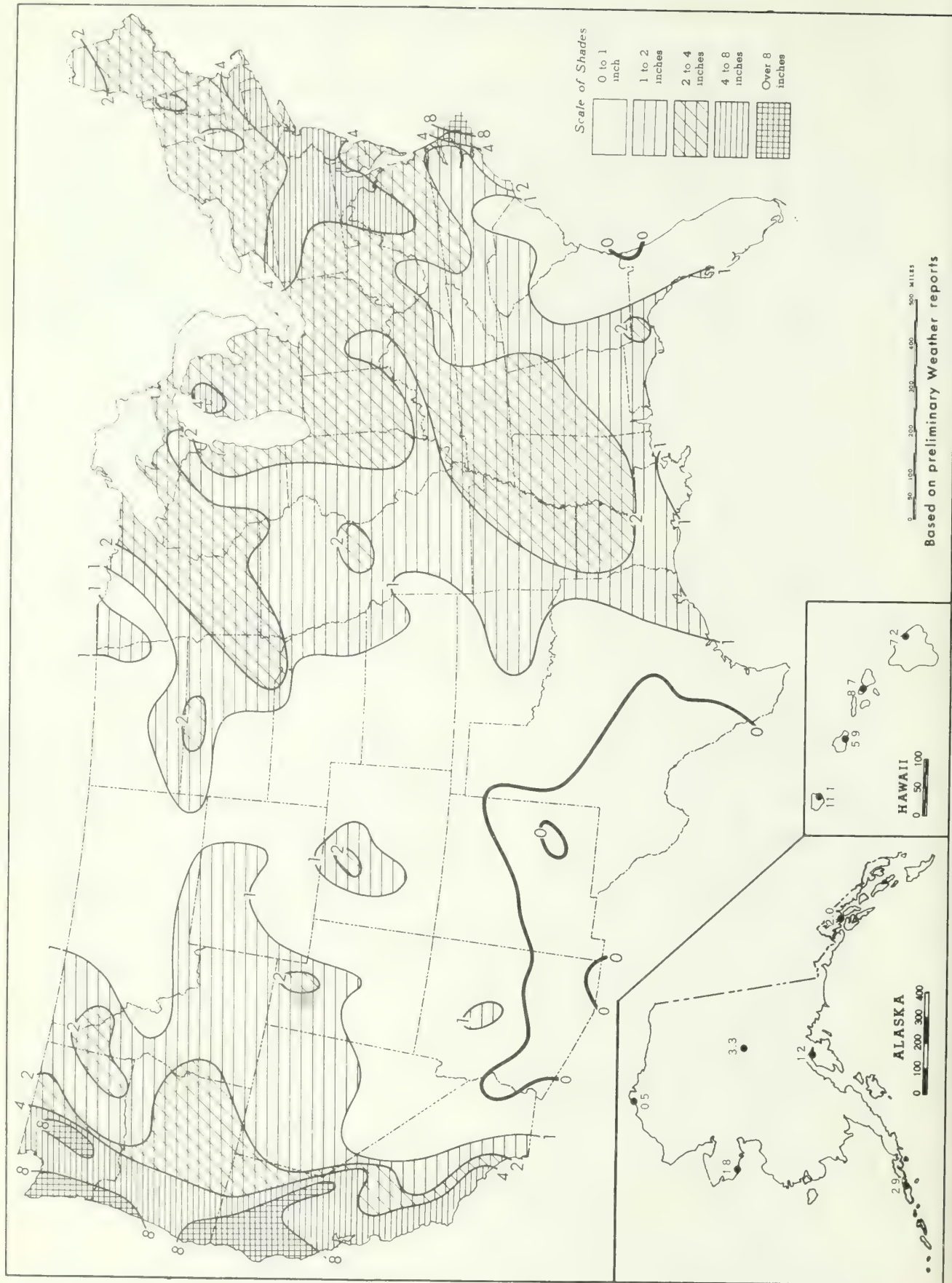


Chart III. Percentage of Normal Precipitation, November 1970.

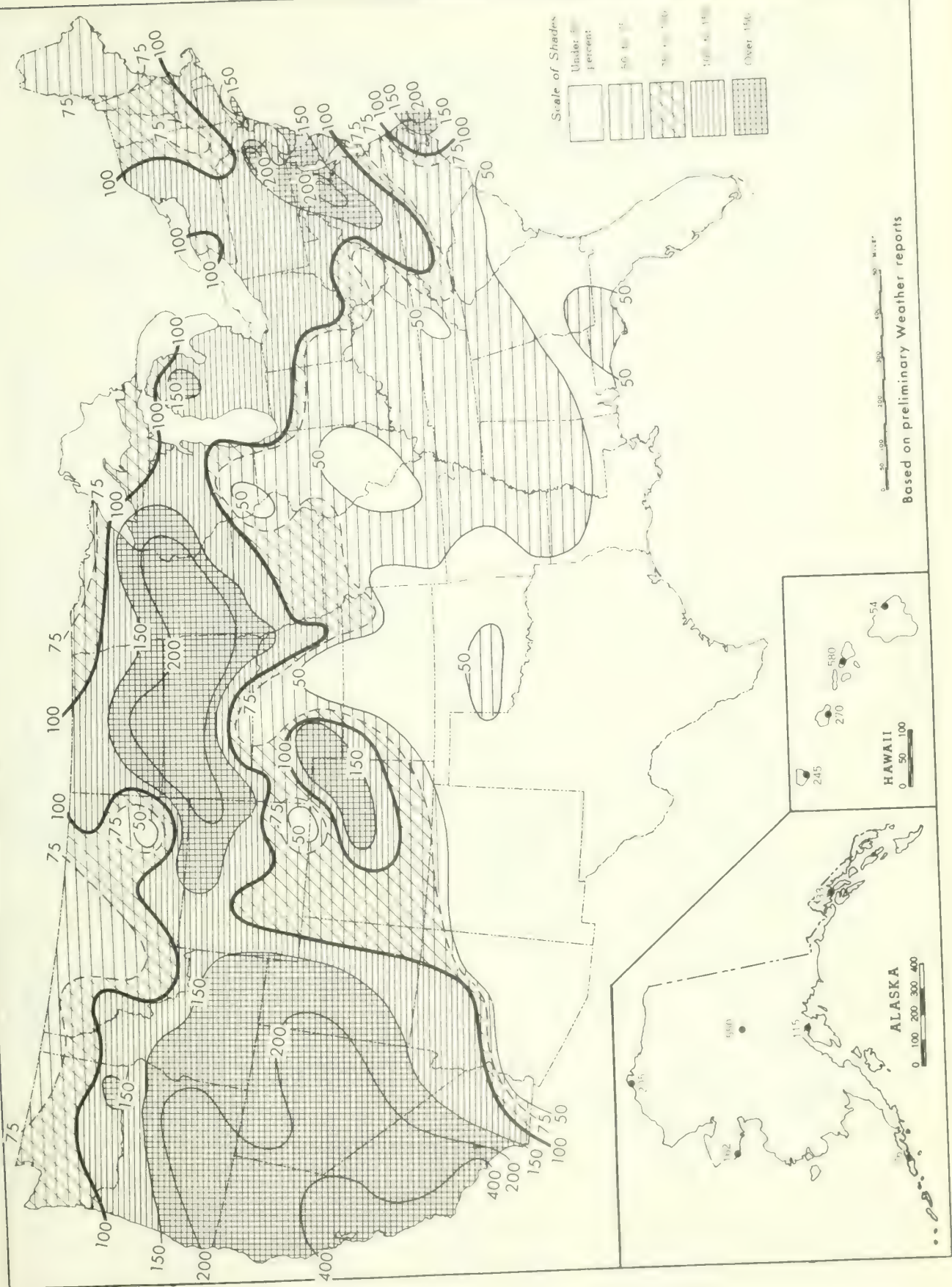
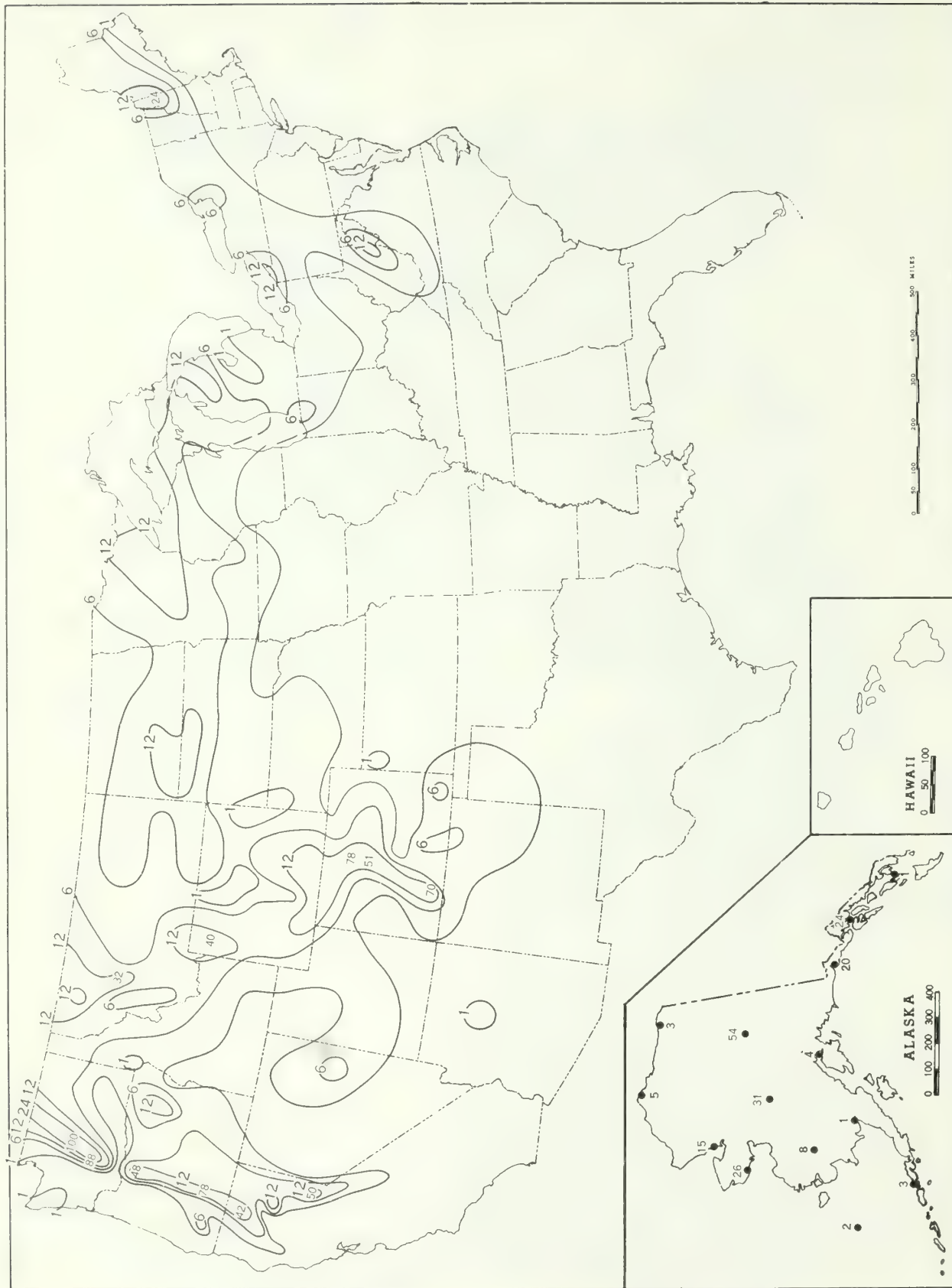
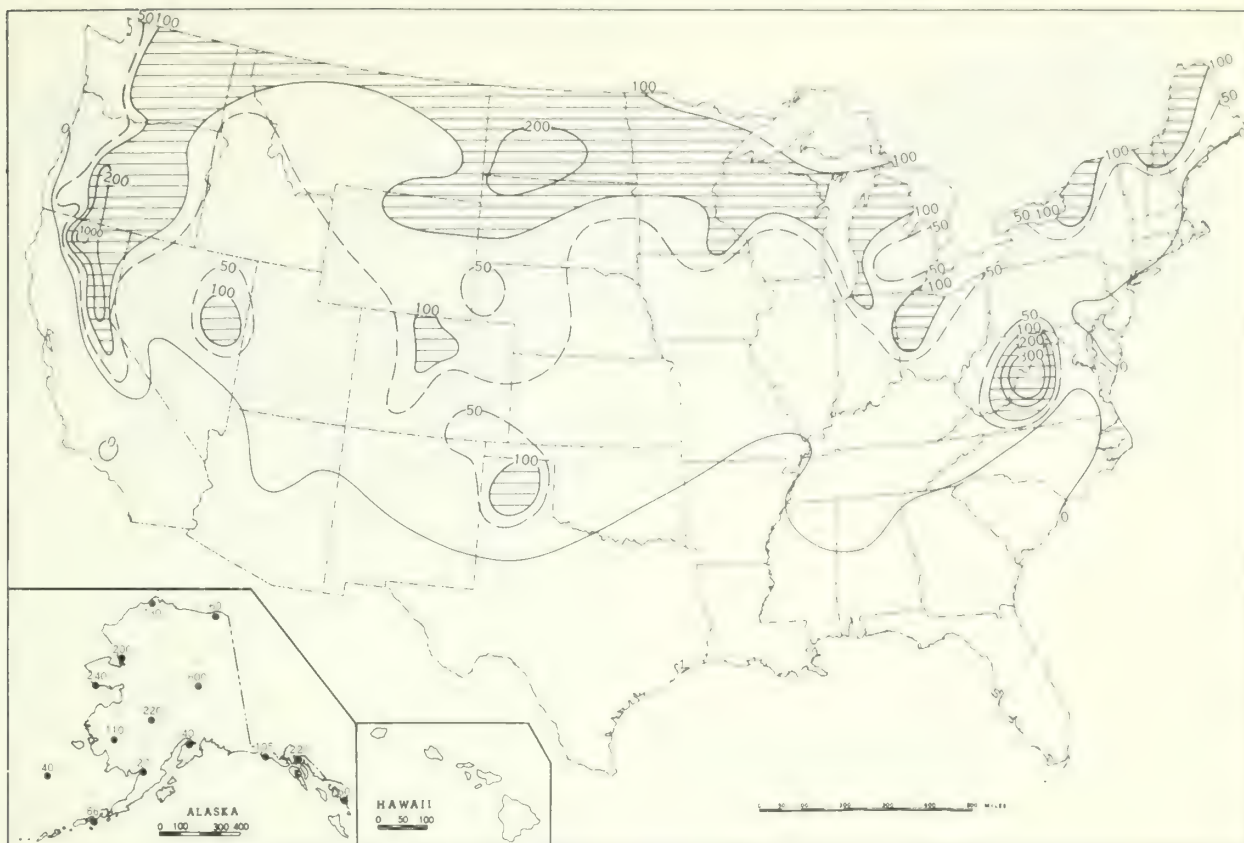


Chart IV. Total Snowfall (Inches), November 1970.

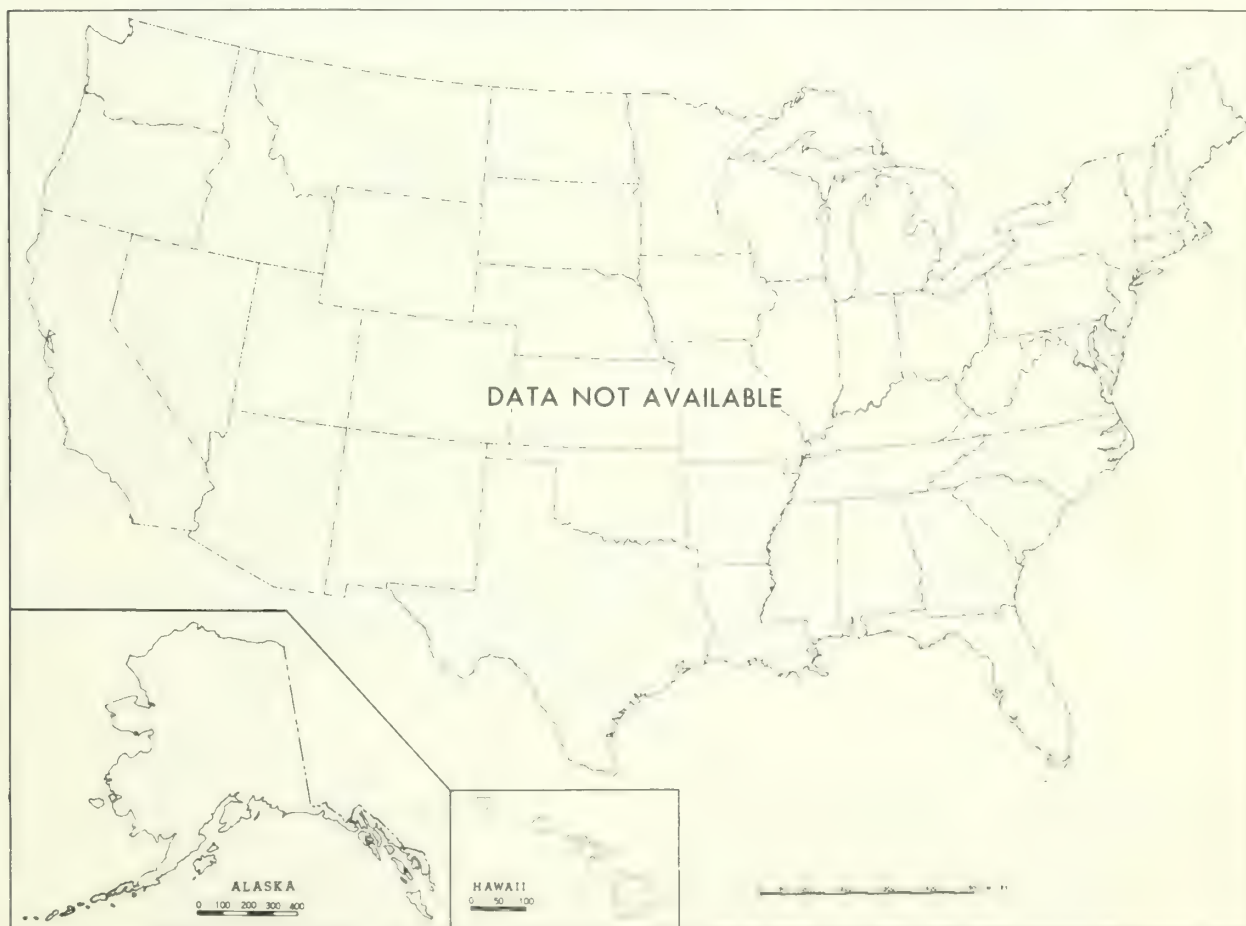


This is the total of unmelted snowfall recorded during the month at Weather Bureau and selected cooperative stations. This Chart and Chart V are published only for the months of November through April, although of course there is some snow at higher elevations, particularly in the far West, earlier and later in the year.

Chart V. A. Percentage of Mean Monthly Snowfall, November 1970.



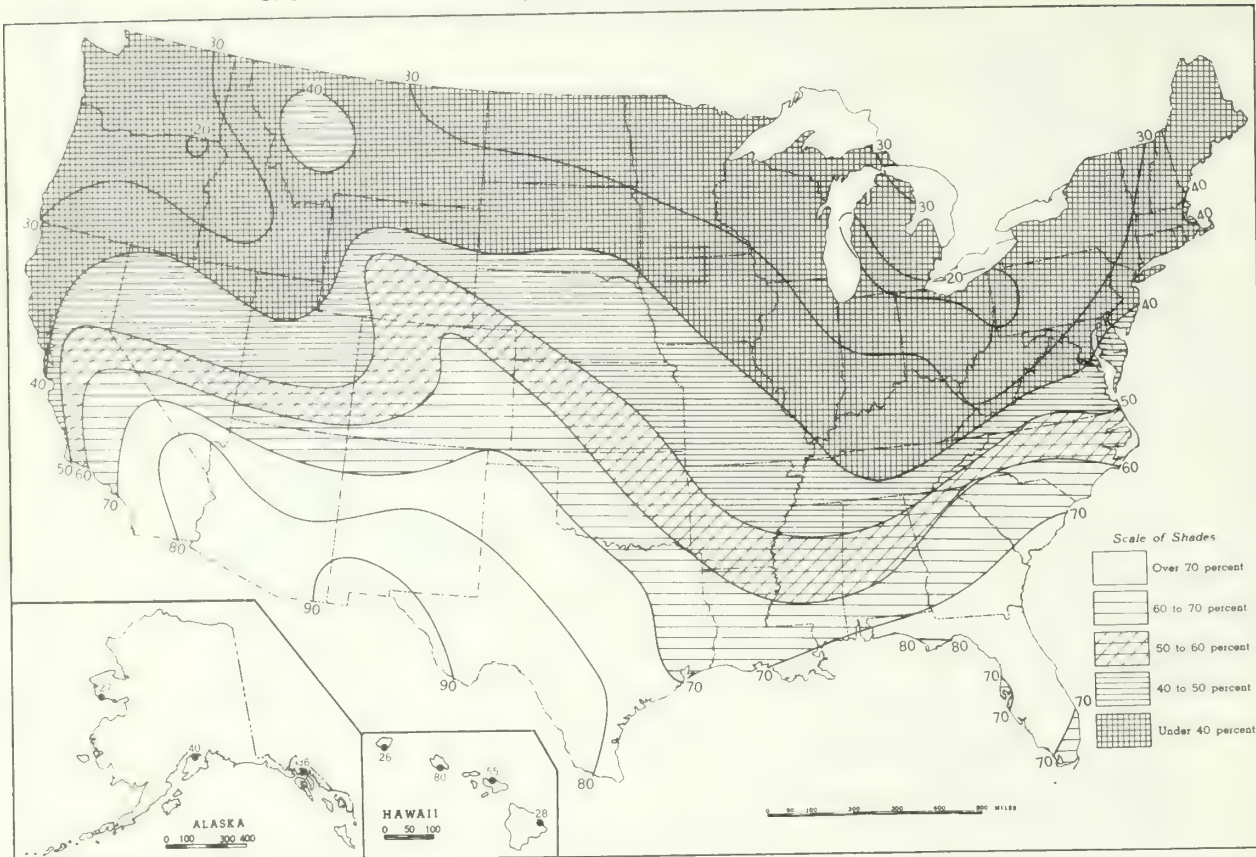
B. Depth of Snow on Ground (Inches), 7:00 a.m. E. S. T., November, 1970.



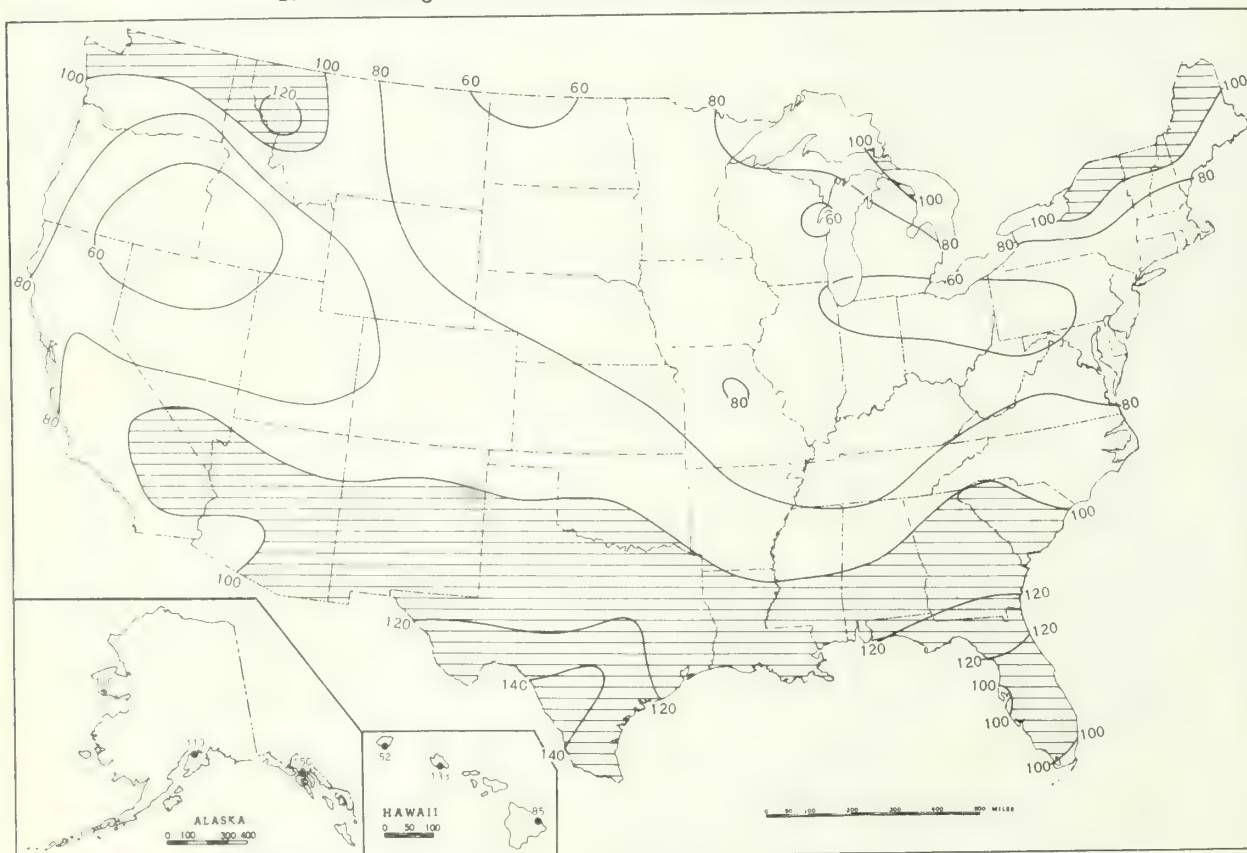
A. Amount of mean monthly snowfall is computed for Weather Bureau stations having at least 10 years of record.

B. Shows depth currently on ground at 7:00 a.m. E.S.T., of the Monday nearest the end of the month.

Chart VI. A. Percentage of Possible Sunshine, November 1970.

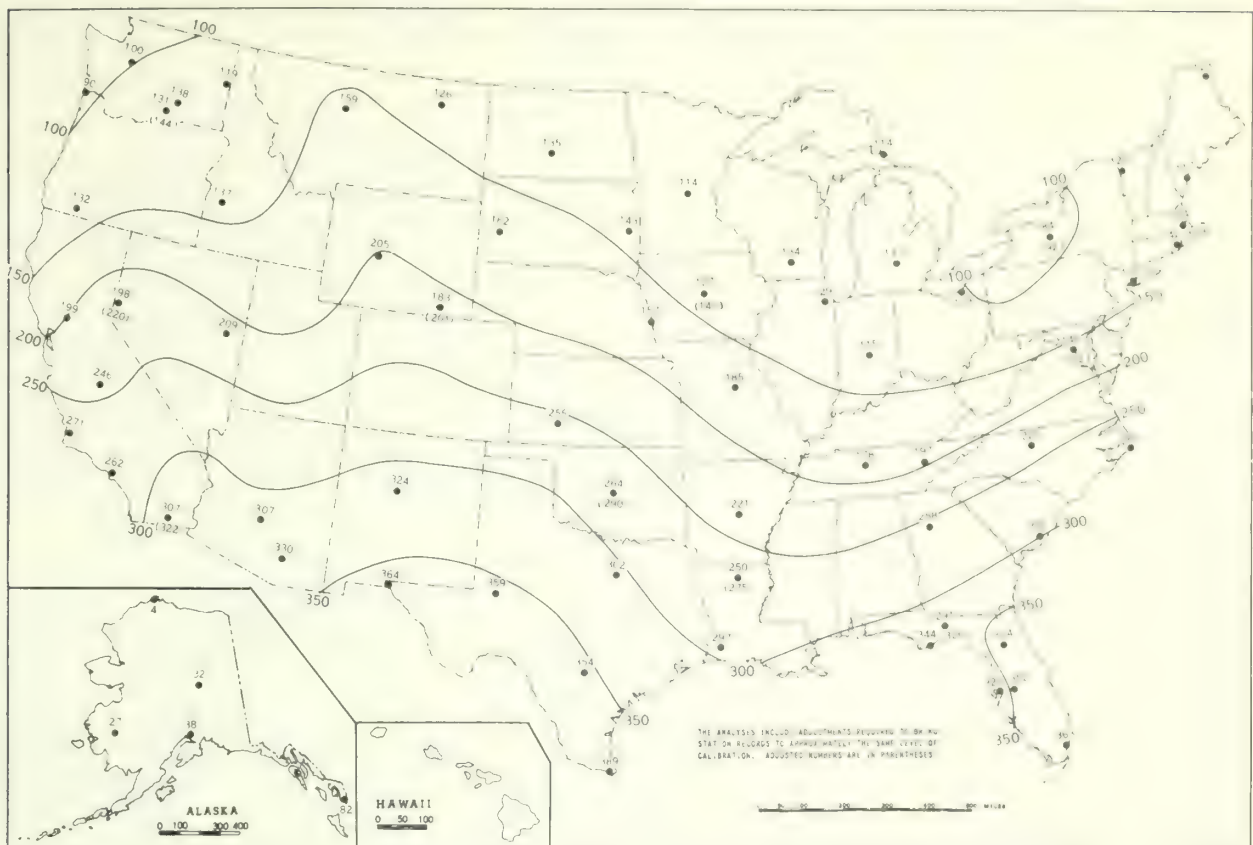


B. Percentage of Mean Monthly Sunshine, November 1970.

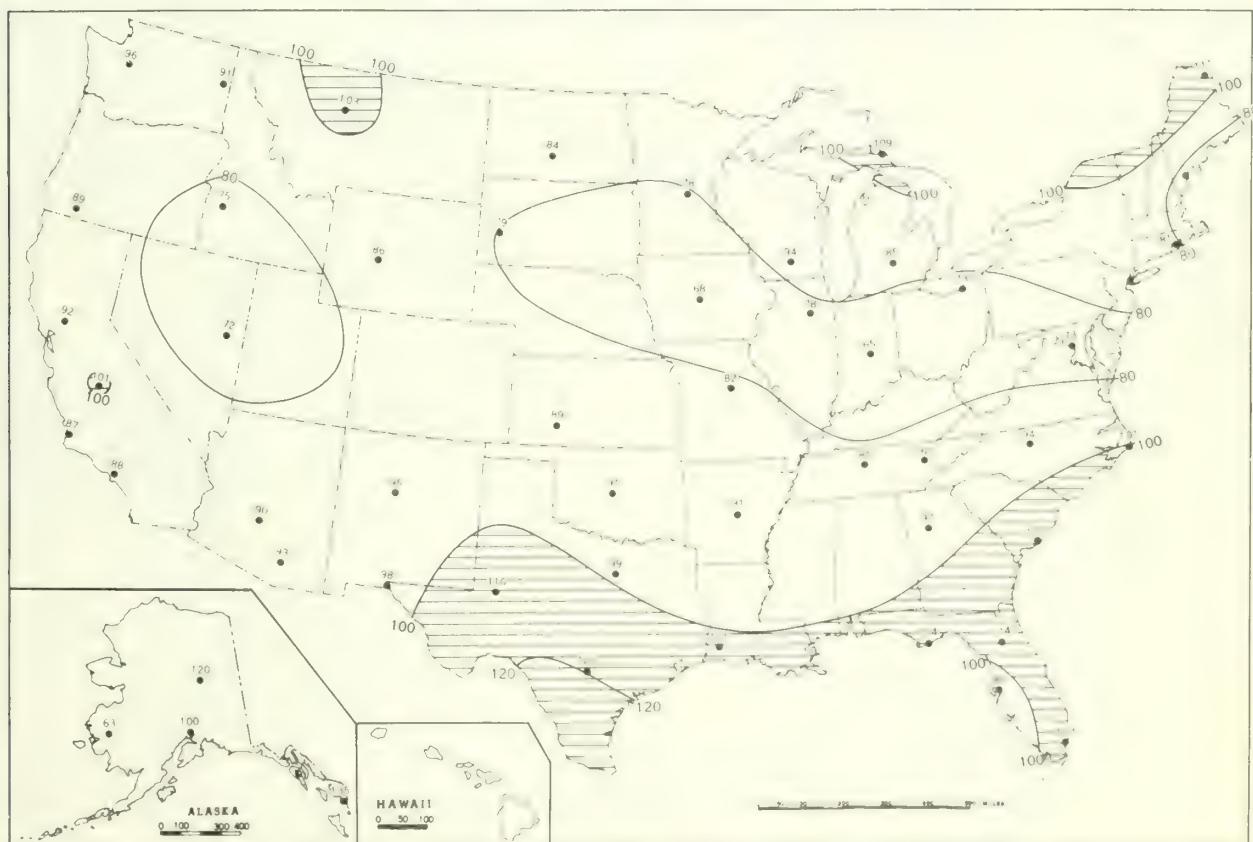


A. Computed from total number of hours of observed sunshine in relation to total number of possible hours of sunshine during month. B. Means are computed for stations having at least 10 years of record.

Chart VII. A. Average Daily Values of Solar Radiation, Langleys, November 1970.



B. Percentage of Mean Daily Solar Radiation, November 1970.



A. Mean daily solar radiation, direct + diffuse, received on a horizontal surface in langleys (1 langley = 1 gm. cal. cm.⁻²) and recorded in International Pyrheliometer Scale of 1956. B. Percentage of the mean based on at least 5 years of record during the period 1950-60, and corrected to the International Pyrheliometer Scale of 1956.

Chart VIII. Tracks of Centers of Anticyclones at Sea Level, November 1970.

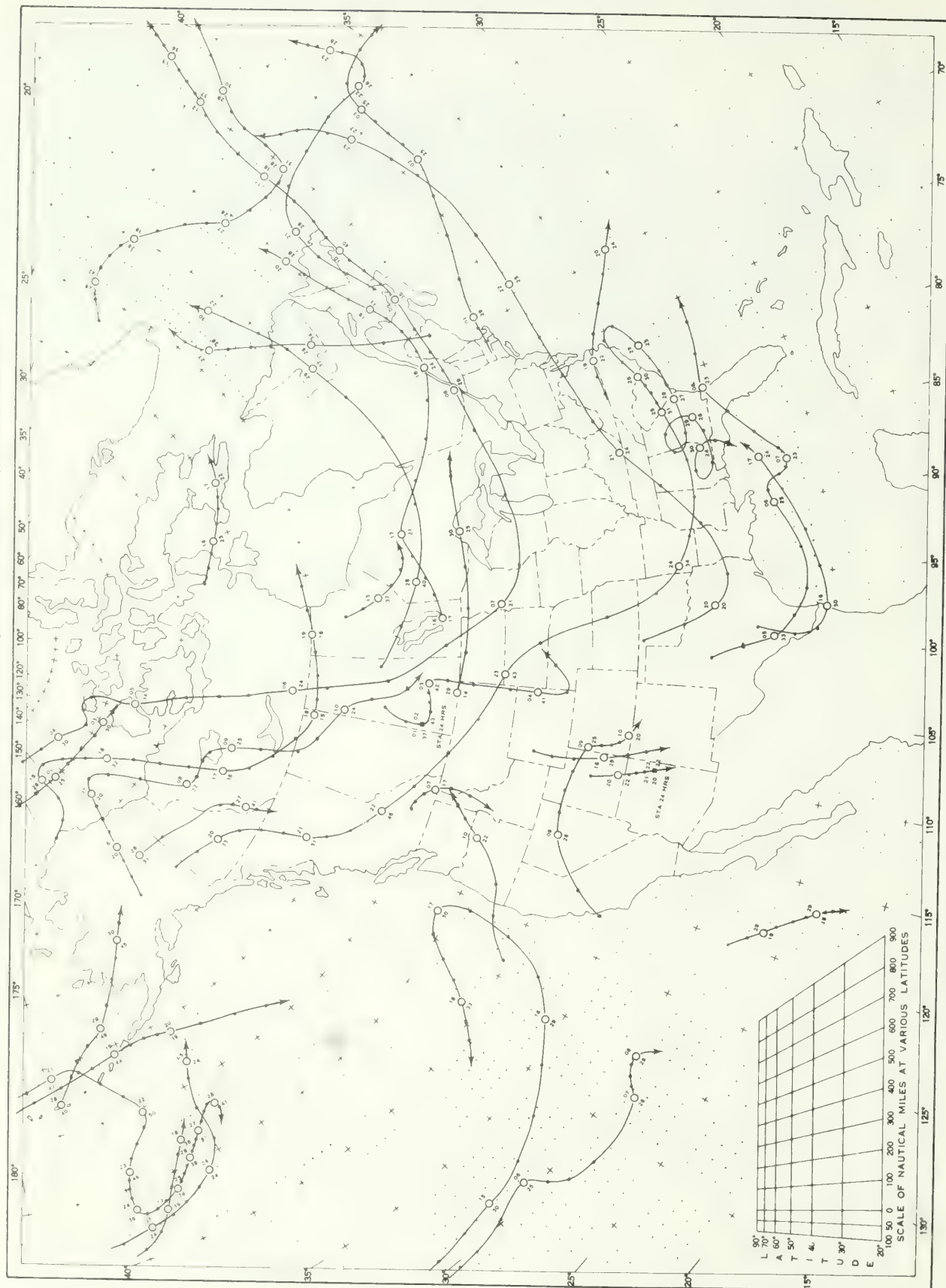
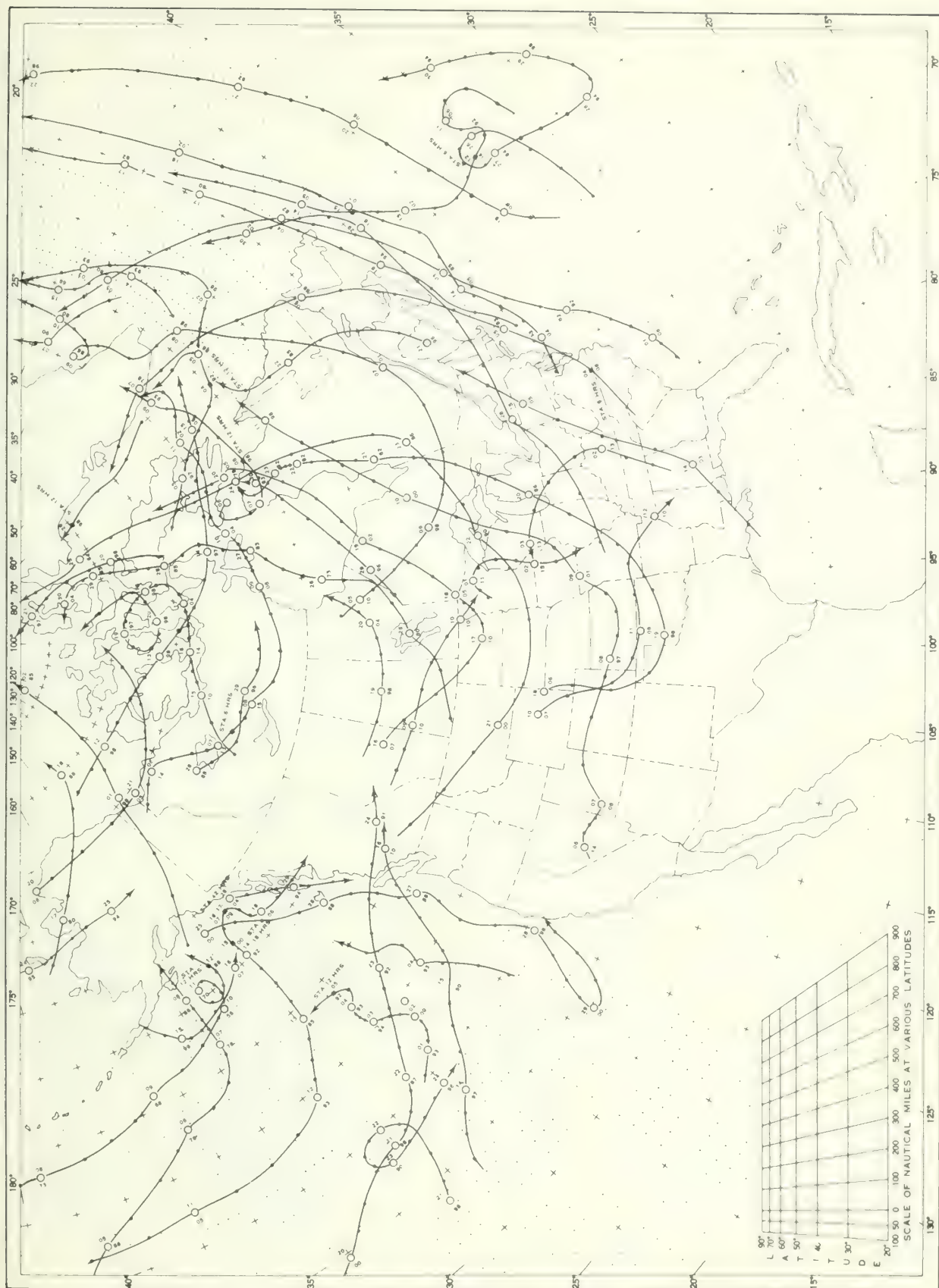
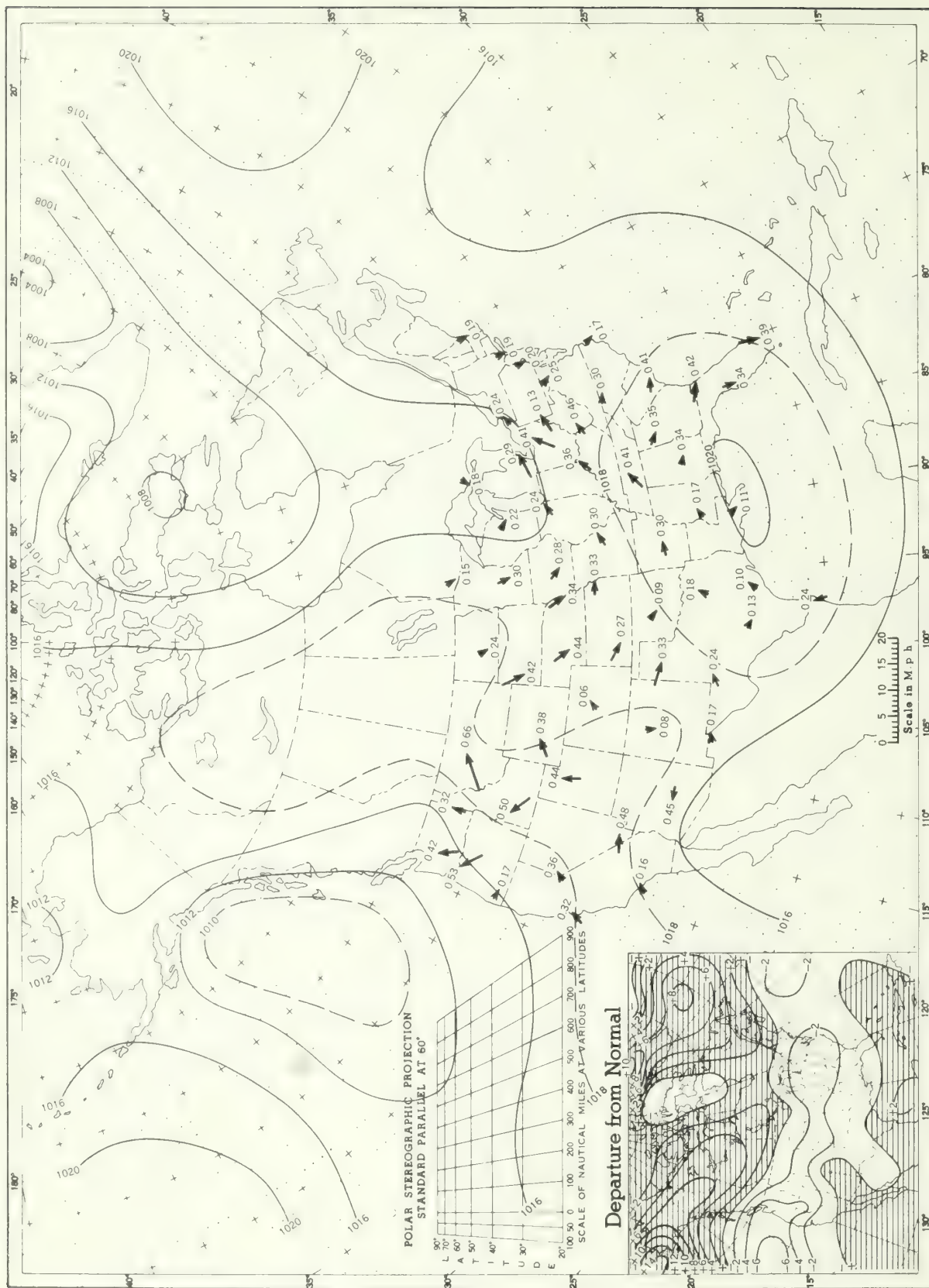


Chart IX. Tracks of Centers of Cyclones at Sea Level, November 1970.



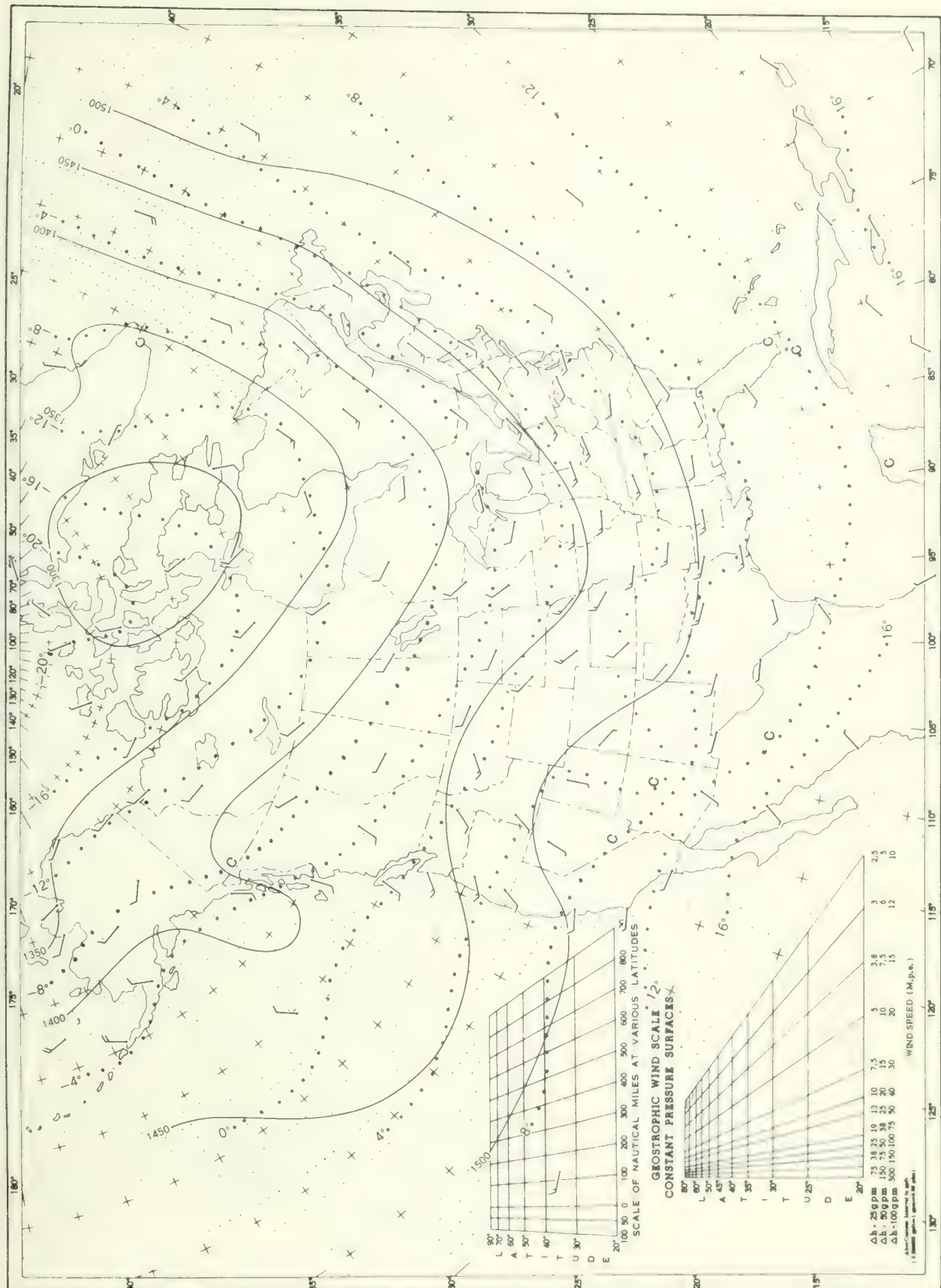
Circle indicates position of center at 7:00 a.m. E.S.T. Figure above circle indicates date, figure below, pressure to nearest millibar.
Dots indicate intervening 6-hourly positions. Squares indicate position of stationary center for period shown. Dashed line in track indicates reformation at new position. Only those centers which could be identified for 24 hours or more are included.

Chart X Average Sea Level Pressure (mb) and Resultant Surface Wind, November 1970. Inset Departure of
Average Pressure (mb) from Normal, November 1970.



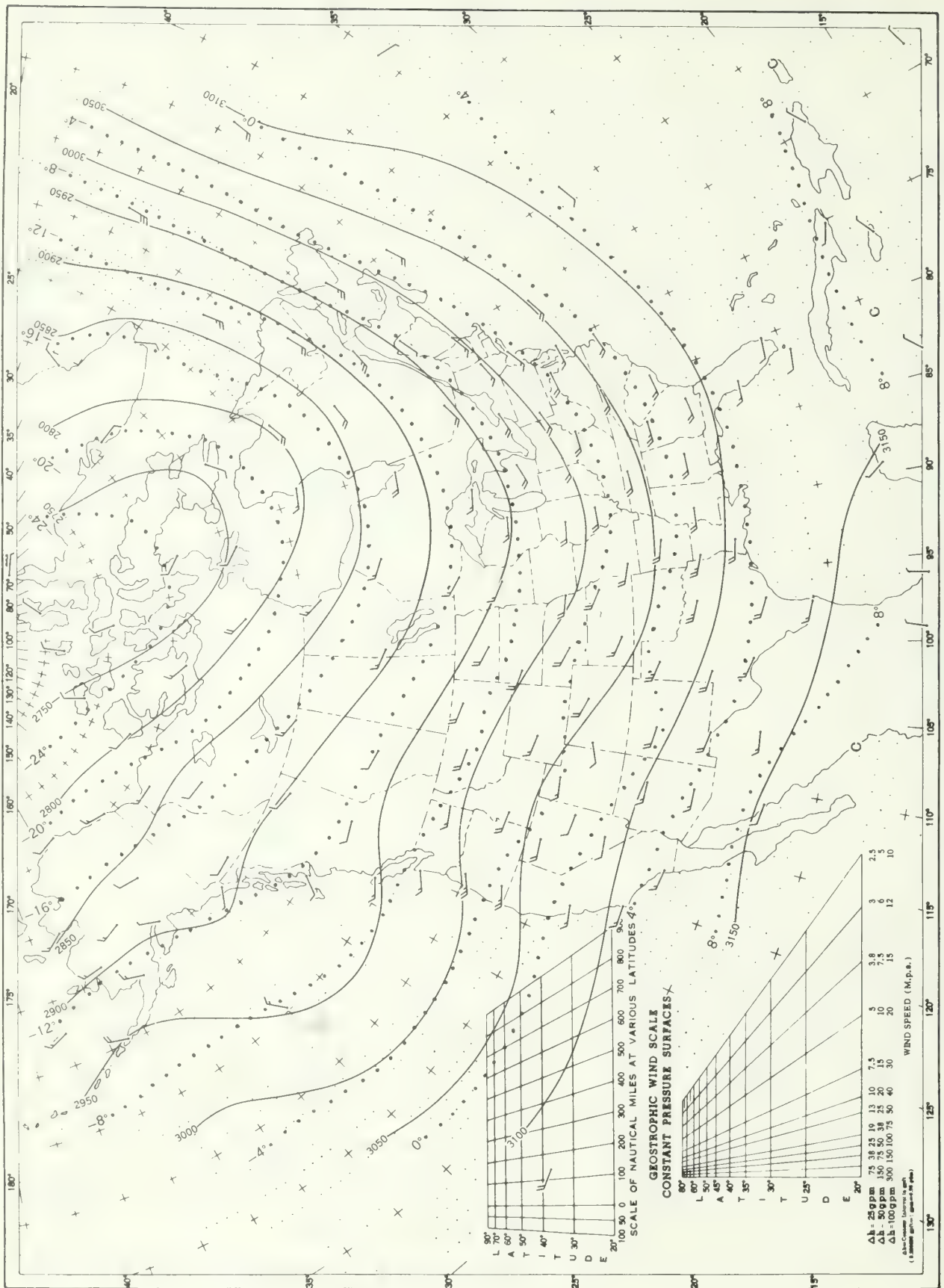
Average sea level pressures are obtained from eight daily 3-hourly observations. Resultant wind directions and speeds are shown by arrows.
Constancy ratios (resultant speed-average speed) are shown to two decimal places. Pressure normals are computed for stations having at least 10 years of record and for 10° intersections in a diamond grid over the oceans.

Chart XI. 850-mb Surface, 1200 GMT, November 1970. Average Height and Temperature, and Resultant Winds.



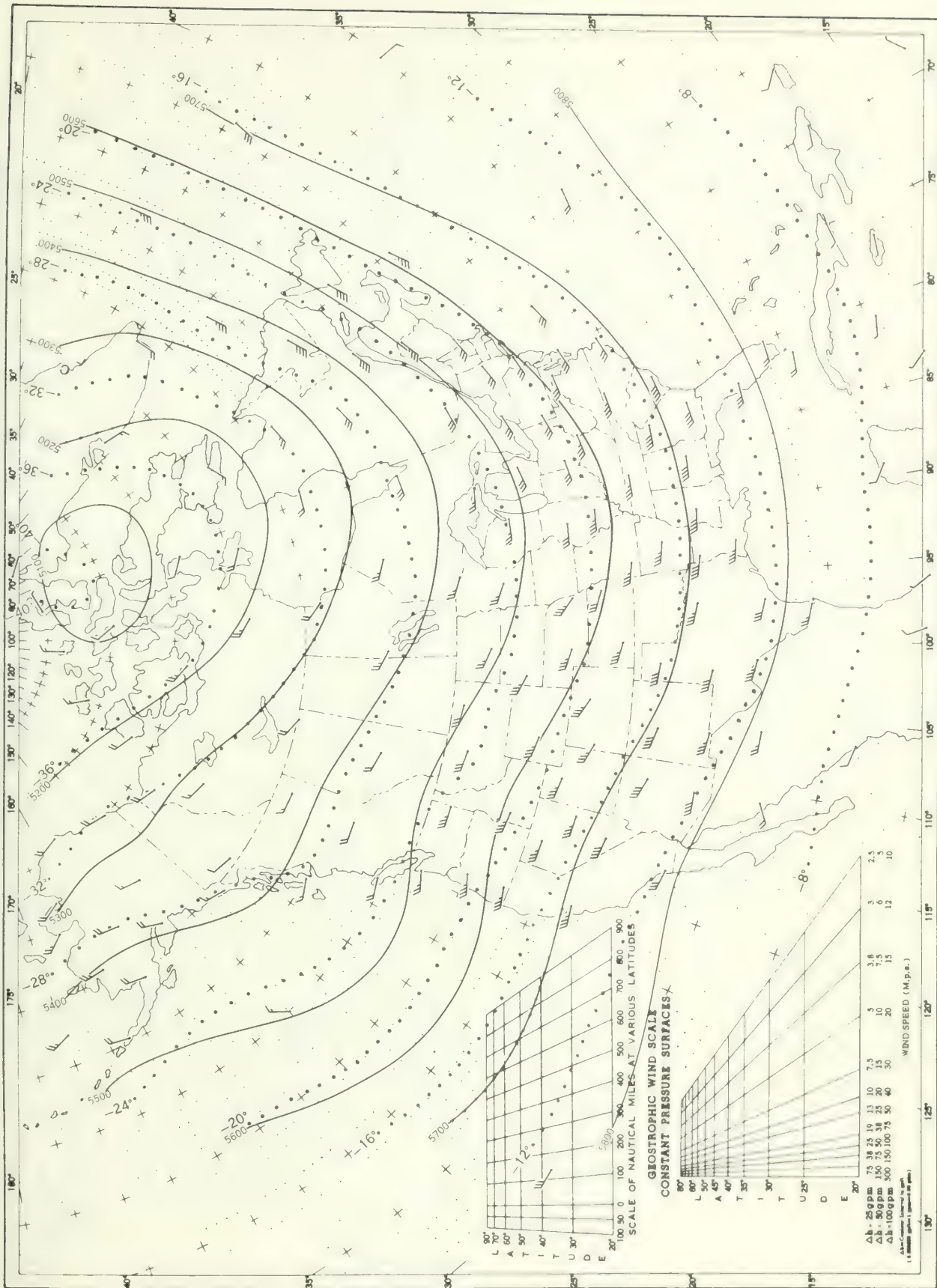
Height in geopotential meters (1 g.p.m. = 0.98 dynamic meters). Temperature in °C. Wind speed in meters per second; flag represents 25mps, full feather 5 mps, and half feather 2.5 mps. All wind data are based on rawin observations.

Chart XII. 700-mb. Surface, 1200 GMT, November 1970. Average Height and Temperature, and Resultant Winds



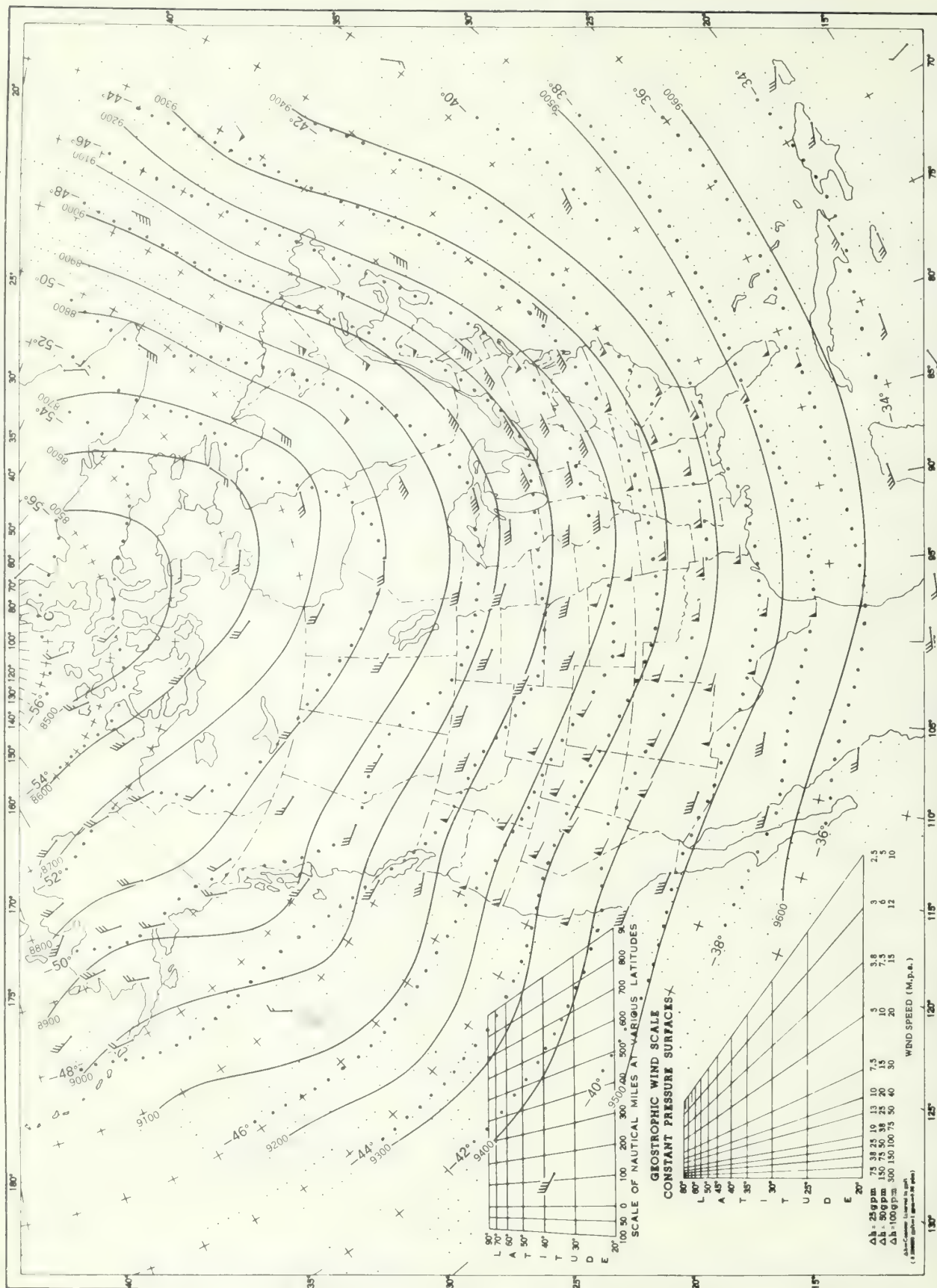
Height in geopotential meters (1 g.p.m. = 0.98 dynamic meters). Temperature in °C. Wind speed in meters per second; flag represents 26 mps, full feather 5 mps, and half feather 2.5 mps. All wind data are based on rawin observations.

Chart XIII. 500-mb. Surface, 1200 GMT, November 1970. Average Height and Temperature, and Resultant Winds.



Height in geopotential meters (1 g.p.m. = 0.98 dynamic meters). Temperature in °C. Wind speed in meters per second; flag represents 26 mps, full feather 6 mps, and half feather 2.5 mps. All wind data are based on rawin observations.

Chart XIV. 300-mb. Surface, 1200 GMT, November 1970. Average Height and Temperature, and Resultant Winds

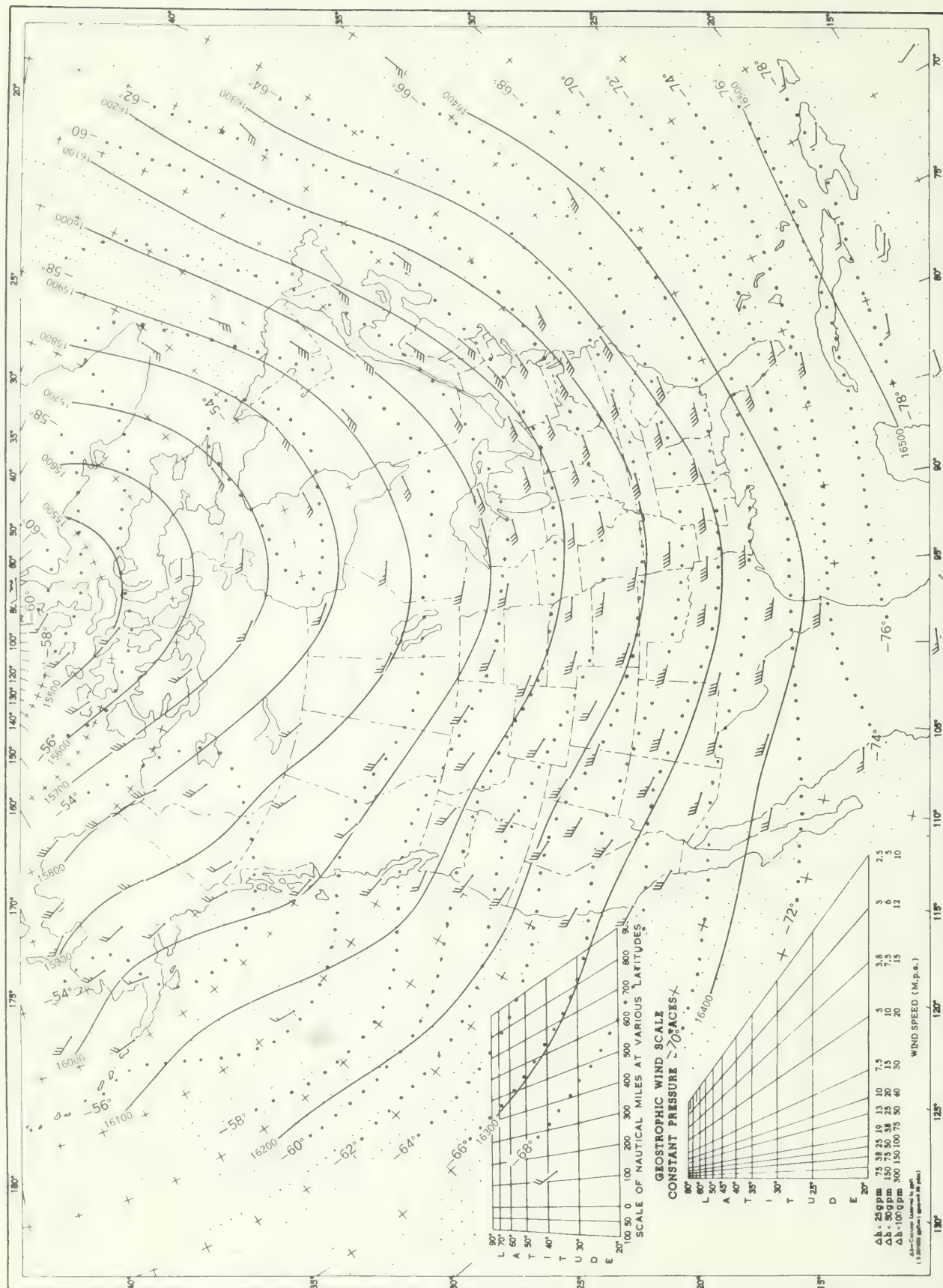


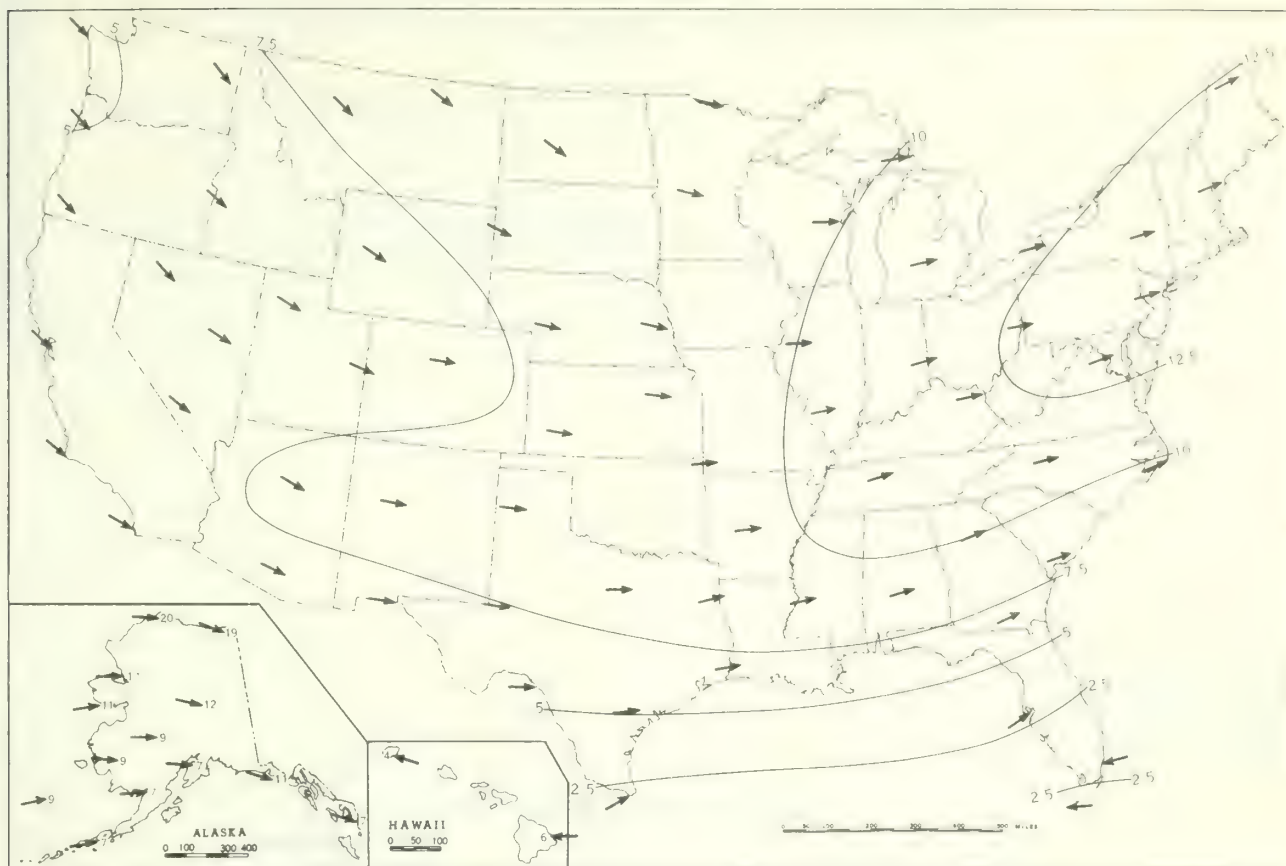
Height in geopotential meters (1 g.p.m. = 0.98 dynamic meters). Temperature in °C. Wind speed in meters per second; flag represents 25 mps, full feather 5 mps, and half feather 2.5 mps. All wind data are based on rawin observations.

[illegible]

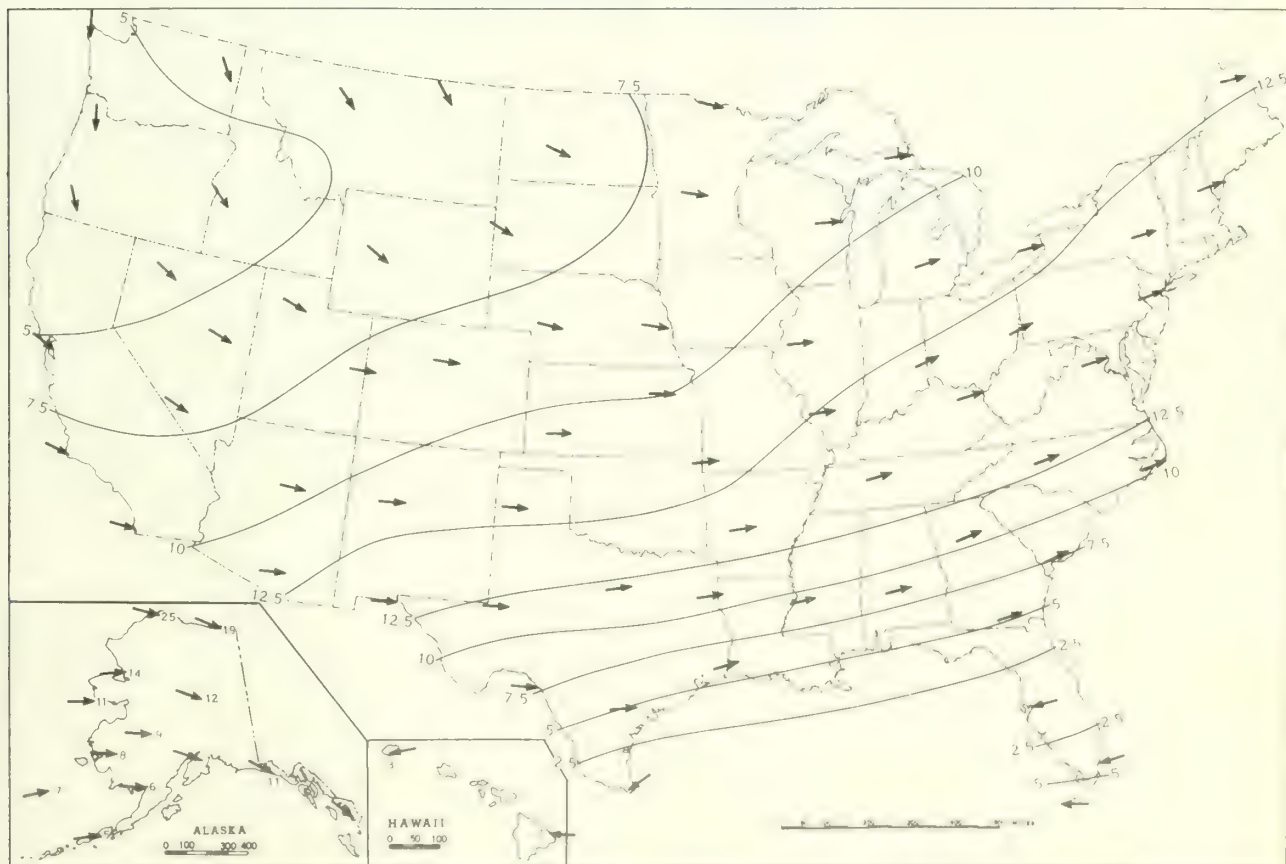
- 601 -

Chart XVI. 100-mb. Surface, 1200 GMT, November 1970. Average Height and Temperature, and Resultant Winds.





B. 30-mb. Surface, 1200 GMT, November 1970. Resultant Winds.



Wind speed (isotachs) in meters per second. Arrows show resultant wind direction. All wind data are based on rawin observations.

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Climatological Data

NATIONAL SUMMARY

U.S. DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
ENVIRONMENTAL DATA SERVICE



NUMBER

1970

Volume 21

No. 12

Wilmington, N.C.

1971

C O N T E N T S

| SURFACE DATA | Page |
|---|------|
| General Summary of Weather Conditions----- | 607 |
| Observed Extremes of Temperature and Precipitation - By States----- | 608 |
| Climatological Data - Stations - English Units----- | 609 |
| Climatological Data - Stations - Metric Units----- | 616 |
| Heating Degree Days----- | 623 |
| Monthly and Seasonal Cooling Degree Days----- | 624 |
| Storm Summary----- | 628 |
| General Summary of River and Flood Conditions----- | 629 |
| Flood Stage Data----- | 631 |
| UPPER AIR DATA | |
| Rawinsonde Data----- | 632 |
| SOLAR RADIATION DATA | |
| Solar Radiation Intensities----- | 639 |
| Daily Totals and Monthly Averages----- | 640 |
| Net Radiation----- | 642 |
| Solar Ultra-Violet Radiation----- | 642 |
| TOTAL OZONE DATA----- | 642 |
| DELAYED DATA----- | 643 |
| CHARTS I-XVII----- | 652 |

NOTE: Delayed data and corrections will be carried in the June and December issues of this publication. An explanatory page "Description of Charts" will be carried in the January and July issues.

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CLIMATOLOGICAL DATA

NATIONAL SUMMARY

Volume 21 No. 12

DECEMBER 1970

GENERAL SUMMARY OF WEATHER CONDITIONS

HIGHLIGHTS:

1. Some southern locations experienced the mildest December temperatures in several decades.
2. Storms dumped heavy snow in the Cascades, at spots in the central Great Plains, and, especially, from the Great Lakes to New England.

TEMPERATURE.--A southwesterly flow in the upper levels of the atmosphere brought unseasonably mild temperatures to most of the Nation in the 1st week of December. Much of eastern Texas averaged 12° to 15° above normal during that week. On the afternoon of November 30, temperatures climbed into the 70's from the southern Great Plains to the Atlantic Ocean and to the 80's in southern Texas and parts of the Florida Peninsula. In the afternoon, a cold front accompanied by winds gusting to 60 m.p.h. and a wall of dust that reduced visibilities to near zero, moved into the northern Great Plains. The resulting subzero weather resulted in weekly mean temperatures over the northern border States being the main exception to the mild weather in the 1st week of the month. Northern Montana averaged 10° to 18° below normal in that period. On the afternoon of December 2, the mercury at Cut Bank, Mont., climbed only to 8° below zero. In the meantime, persistent southerly winds brought record-breaking high temperatures to 21 States from Kansas and Oklahoma to Maine and Florida.

The Far Northwest, the northern Great Plains, New York, and New England averaged cooler than normal in the 2nd week of December. The rest of the Nation was warmer than normal. The arid Southwest warmed to near 80°. Thermal, Calif., and Tucson, Ariz., registered 82° on December 7. On the 8th, Grand Island, Nebr., recorded 73°. Near midweek, the cool air moved into the northern Great Plains and the East became warmer. Washington, D. C., was 20° warmer on the 9th than 24 hours earlier. Subzero weather occurred in northern Minnesota, -15° at International Falls. While bitter cold moved into the North, southerly breezes brought near-record warmth to the Southland - Macon, Ga., registered 78° on the 10th. Midmonth brought cooler weather to the East. Greenville, S. C., cooled to 30° on the 13th, 25° colder than the previous day. Thus midmonth found clear, cool, invigorating weather covering much of the Nation, with subfreezing temperatures as far south as the northern parts of the Gulf States and subzero weather in the northern parts of the Great Basin, the Rockies, and the Great Plains. On December 21, the mercury at Roseau, Minn., plunged to 36° below zero. On the same date, southern Florida recorded afternoon readings in the 80's.

In the 4th week of December, above-normal weekly mean temperatures occurred from eastern New Mexico to the Carolinas and southward to the Gulf of Mexico. Macon, Ga., registered 82° on the afternoon of the 23rd, the highest December temperature of record for that location. The record warmth in the Southeast was followed by sharp cooling at the end of the 4th week when cold weather gripped the entire Nation except the Florida Peninsula. The minimum temperature at Gainesville, Fla., dropped from 60° on the 25th to 32° on the 26th and to 26° on the 27th. Subzero temperatures were

common in the Colorado Rockies. By the end of the month, Arctic air covered almost the entire Nation. Parts of the northern Great Plains experienced subzero nighttime weather and subfreezing temperatures in the afternoons. A slight warming trend occurred in the central and southern Great Plains as the month ended.

PRECIPITATION.--Generous rains fell along the coast in the Pacific Northwest in the 1st and 3rd weeks and in the last few days of December producing monthly totals exceeding 12 inches. The December total at Quillayute, Washington, 16.55 inches, was slightly less than the normal for that location. Most other areas in the Northwest received more than their December normals. The main exceptions were in an area in southeastern Washington and nearby portions of Oregon and Idaho where December rains amounted to less than 50% of the normals. Other areas that received above-normal precipitation in December include much of Wisconsin, Missouri, the eastern portions of Kentucky and Tennessee and northeastward to New England, and a few scattered spots mostly in the East.

Monthly totals exceeded 4.00 inches along the coast of southern New England, central Kentucky, central Tennessee, most of Mississippi, and central Alabama. Kentucky, Tennessee, Mississippi, and Alabama received generous rainfall in the latter half of the month. Totals from eastern Montana and North Dakota southward to the Mexican Border and the western Gulf coast received less than 1.00 inch during the month. Much of the large area received less than 0.25 inch. These totals are less than 50% of normal from central Nebraska southward to Arizona, New Mexico, and Texas.

While a Pacific storm raged in the Northwest in the 1st week of December, a cold front, accompanied by strong gusty winds and blowing dust and sand, moved across mid-America. It pushed eastward on the 3rd and dumped 6 to 12 inches of snow from northwestern Minnesota to Upper Michigan. Two days later, the storm was centered north of Lake Superior. It produced winds gusting to 60 m.p.h. and heavy snow squalls on the lee shores of the Great Lakes. Snow depths up to a foot or more, combined with the strong winds, made highway travel difficult.

The 2nd week of December began with a brief period of fair weather. A change began to take shape about midweek. Moist Pacific air invaded the northern Rocky Mountains and a storm, after developing in the Rockies, moved to the adjoining Great Plains.

This became a major storm as it swept across the Great Plains. It spread snow from Nebraska to the Great Lakes, a band of freezing rain south of the snow belt, and, farther south, showers and thunderstorms. On the 10th and 11th, Madison, Wisconsin, received 16 inches of snow in a 24-hour period. This is the greatest amount of snow to fall at Madison in 24 hours and the greatest amount from any storm in the 87-year record for that station. Meanwhile, another storm brought mixtures of snow, sleet and freezing rain to Upstate New York and northern New England. Driving conditions became risky.

The stormiest weather of the season occurred about midmonth. Precipitation fell in three areas. A low-pressure system centered north of Lake Erie caused

GENERAL SUMMARY OF WEATHER CONDITIONS-Continued

DECEMBER 1970

snow flurries from Michigan to Maine but accumulations were slight. A low centered over northeastern New Mexico dumped snow on the southern Rockies. The third storm produced snow in the coastal ranges and the Cascades in Washington and Oregon. Precipitation in the Northwest was accompanied by strong winds. Cape Blanco, Oregon, registered 86 m.p.h. gusts on the 15th. About the middle of the 3rd week of December, heavy thunderstorms occurred in the Deep South with rain totals 2.00 to 4.00 inches or more along a band about 100 miles wide and extending from the New Orleans, La., vicinity to Wilmington, N. C. As the storm moved northeastward, it dumped snow at the rate of 1 inch an hour at some locations in the Northeast.

Wet and windy weather continued into the last week

of the month. Freezing precipitation slicked the roads in Mid-America and dense fog covered the Deep South. Heavy snow fell in the central and southern Rocky Mountains and in the Northeast from West Virginia to southern New England. Flagstaff, Arizona, measured 21 inches of snow on the ground at noon on the 22d. Most of this had fallen in the previous 48 hours. A few days before the month ended, a large storm dumped heavy snow in the Northeast. Many areas in the Northeast had never seen so much snow. Burlington, Vermont, with a 56.7 inch total, exceeded the total for any previous month in their 87-year record. Other stations with 100-year records, exceeded their previous December record totals.

OBSERVED EXTREMES OF TEMPERATURE AND PRECIPITATION -- BY STATES

| STATE | Temperature | | | | | | Precipitation | | | | | |
|----------------|-------------------------|---------------|--------------------|-----------------------------|--------------|---------------------|------------------------|---------------------|------------------------|--------------|---------|--------------|
| | Monthly extremes | | | | | | Monthly extremes | | | | | |
| | Station | Highest
°F | Date | Station | Lowest
°F | Date | Station | Greatest
In. | Station | Least
In. | Station | Least
In. |
| Alabama | Fort Worth | 82 | 4 | Fort Worth | 10 | 27 | Wallace 2 E | 8.55 | Jacksonville 2 SW | 2.37 | | |
| Alaska | Prospect Creek Camp | 55 | 23 | Prospect Creek Camp | -68 | 2 | Attu | 21.60 | Barrow WSO | .09 | | |
| Arizona | Hawley Lake | 88 | 7 | Hawley Lake | -14 | 23 | Hawley Lake | 3.12 | 2 Stations | .00 | | |
| Arkansas | 2 Stations | 80 | 2 | 2 Stations | 7 | 26 | Lake City | 7.47 | Huntsville | .95 | | |
| California | Indio U S Date Garden | 84 | 8 | White Mountain 2 | -24 | 3 | Honeydew 2 WSW | 32.56 | Blythe FAA AP | .03 | | |
| Colorado | Pueblo WSO | 77 | 8 | 2 Stations | -32 | 29 | Bonham Reservoir | 4.25 | 19 Stations | .00 | | |
| Connecticut | Hartford WSO | 64 | 2 | Coventry | -9 | 16 | Bakersville | 4.99 | Woodbury | 1.96 | | |
| Delaware | 2 Stations | 68 | 2 | Georgetown 5 SW | 9 | 29 | Lewes 1 SW | 4.20 | Newark University Farm | 2.90 | | |
| Florida | Fountain 3 SSE | 88 | 5 | Fountain 3 SSE | 16 | 27 | Niceville | 4.00 | Kendall 2 E | .00 | | |
| Georgia | Quitman | 83 | 3 | 2 Stations | 11 | 26 | Thomaston 2 S | 8.13 | Kingston | 1.70 | | |
| Hawaii | 2 Stations | 88 | 19 | Mauna Loa Slope Obs. Hawaii | 23 | 28 | Waikamoi Dam 336, Maui | 67.11 | 3 Stations | .00 | | |
| Idaho | Slate Creek RS | 58 | 7 | Grouse | -32 | 20 | Deadwood RR Light Sta | 9.16 | Lewiston WSO | .14 | | |
| Illinois | Cahokia | 79 | 1 | Stockton | -5 | 24 | Brookport Dam 37 | 4.31 | 2 Stations | .54 | | |
| Indiana | 6 Stations | 72 | 3 | Goshen College | -5 | 30 | Evans Landing Dam 43 | 4.67 | Rochester | .30 | | |
| Iowa | Burlington Radio KBUR | 71 | 3 | 2 Stations | -16 | 21 | Fairfield | 2.75 | Bartlett 5 E | .17 | | |
| Kansas | 4 Stations | 76 | 1 | Imperial | -5 | 22 | Eskridge | 2.66 | 24 Stations | .00 | | |
| Kentucky | 80 | 2 | 3 Stations | 5 | 28 | Mayfield Radio WNGO | 6.99 | Elkhorn City | 2.17 | | | |
| Louisiana | Saint Bernard | 84 | 1 | Homer Exp Station | 16 | 26 | Sheridan Fire Tower | 8.07 | Gloster 1 W | 1.59 | | |
| Maine | 2 Stations | 61 | 2 | Lake Umbagog 2 | -36 | 22 | Rockland | 7.34 | Fort Kent | 1.17 | | |
| Maryland | 2 Stations | 74 | 2 | 2 Stations | 4 | 31 | Bittering 2 NW | 6.57 | Wheaton Regional Park | 2.22 | | |
| Massachusetts | Chester 2 | 66 | 2 | Chester 2 | -13 | 16 | Portsmouth 1 LSI | 8.62 | Amherst | 2.37 | | |
| Michigan | Benton Harbor Airport | 69 | 1 | 3 Stations | -23 | 21 | Cheboygan RR Light Sta | 5.69 | Bay City | .78 | | |
| Minnesota | Winona | 60 | 1 | Roseau 1 E | -36 | 21 | Winnabigoshish Dam | 2.35 | Artichoke Lake | .02 | | |
| Mississippi | Vicksburg Military Pk | 85 | 1 | Booneville | 11 | 26 | Beaumont | 9.13 | Allen | 2.15 | | |
| Missouri | 8 Stations | 78 | 4 | Steelville | 3 | 20 | Portageville WSASO | 5.51 | Bunker | D .41 | | |
| Montana | 2 Stations | 61 | 8 | Hinsdale 23 N | -40 | 20 | Troy 18 N | 8.16 | 3 Stations | .00 | | |
| Nebraska | Medicine Creek Dam | 58 | 1 | 3 Stations | -13 | 19 | Clarkson | 1.46 | 2 Stations | .00 | | |
| Nevada | Sunrise Manor Las Vegas | 75 | 16 | Mountain City RS | -21 | 19 | Mount Rose-Sky Tavern | 8.45 | Silverpeak | .01 | | |
| New Hampshire | 2 Stations | 62 | 1 | Colebrook 2 E | -32 | 22 | Mount Washington | 13.06 | Marlow | D2.31 | | |
| New Jersey | 2 Stations | 71 | 2 | Sussex 1 SE | 6 | 8 | Phillipsburg | 3.99 | Chatsworth | 1.48 | | |
| New Mexico | Carlsbad FAA AP | 83 | 8 | Tres Piedras | -13 | 19 | Brazos Lodge | D 3.49 | 38 Stations | .00 | | |
| New York | 2 Stations | 70 | 2 | Massena FAA AP | -33 | 22 | Ulster FAA AP | 8.03 | Arkville 2 W | 1.57 | | |
| North Carolina | Maysville 6 SW | 80 | 24 | Grandfather Mountain | -4 | 26 | Nantahala | 5.92 | New Bern FAA AP | 1.32 | | |
| North Dakota | 3 Stations | 54 | 7 | 3 Stations | -34 | 21 | Grand Forks FAA AP | 1.24 | Forman | .1 | | |
| Ohio | Portsmouth | 72 | 2 | 2 Stations | -1 | 30 | Ironton | 5.53 | Paulding 1 NE | 1.15 | | |
| Oklahoma | 6 Stations | 80 | 3 | Hooker 1 N | 6 | 24 | Bear Mountain Tower | 2.68 | 6 Stations | .00 | | |
| Oregon | Dorena Dam | 65 | 6 | Seneca | -15 | 18 | Tillamook 13 ENE | 34.39 | Milton Freewater 4 NW | .33 | | |
| Pennsylvania | 2 Stations | 69 | 2 | Coudersport 4 NW | -11 | 8 | Johnstown | 5.23 | Tamaqua 4 N Dam | 1.24 | | |
| Puerto Rico | Adjuntas Substation, PR | 90 | 27 | Adjuntas Substation, PR | 48 | 30 | Pico Del Este, PR | 28.09 | Guayabal, PR | .17 | | |
| Rhode Island | Providence WSO | 62 | 2 | North Scituate 4 W | 3 | 8 | Woonsocket | 4.98 | Block Island WSO | 2.97 | | |
| South Carolina | Beaufort 7 SW | 81 | 23 | Caesars Head 1 NE | 10 | 25 | Bamberg | 6.34 | Georgetown 2 E | 2.17 | | |
| South Dakota | Spearfish | 68 | 1 | Marcus 8 NNW | -27 | 20 | Lead 6 SSW | D 1.30 | Wetona | .04 | | |
| Tennessee | 78 | 2 | Crossville Exp Sta | 3 | 26 | Neptune 3 S | 7.26 | Mount Pleasant 2 SW | 2.46 | | | |
| Texas | Benavides 7 S | 92 | 23 | Bravo | 5 | 23 | Newton | 3.48 | 66 Stations | .00 | | |
| Utah | Zion National Park | 65 | 8 | 2 Stations | -24 | 19 | Silver Lake Brighton | 7.29 | 2 Stations | .00 | | |
| Vermont | Vernon | 63 | 3 | 3 Stations | -28 | 22 | Mount Mansfield | 8.15 | Rutland | D2.40 | | |
| Washington | Little Goose Dam | 79 | 3 | Pastoria 1 NW | -18 | 30 | Pennington Gap | 4.92 | Byllesby 3 W | 1.10 | | |
| West Virginia | 2 Stations | 74 | 2 | Seneca State Forest | -3 | 30 | Aberdeen 20 NNE | 29.19 | Kennewick | .29 | | |
| Wisconsin | 4 Stations | 65 | 3 | Hillsboro | -23 | 29 | Gurney | 4.81 | 2 Stations | .50 | | |
| Wyoming | 3 Stations | 63 | 8 | Bozeman 3 SW | -40 | 23 | Snake River | 4.73 | 3 Stations | .1 | | |

Note: Dates in the above table apply to the period 24 hours prior to time of observation. In some cases the actual occurrence is on the calendar date preceding that shown. (See individual Climatological Data for times of observations).

equivalent to every 10 inches of snowfall.

CLIMATOLOGICAL DATA

ENGLISH UNITS

1971

| State and Station | Elevation (ground) | Pressure | | Temperature | | | | | | | | | | Precipitation | | | | | Wind | | | | No. of days (sunrise to sunset) | | Sky cover, tenths (sunrise to sunset) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | | Station O | Sea level | Average maximum | Average minimum | Average | Departure from normal | Highest | Date | Lowest | Date | No. of days | | Greatest in 24 hours | 0.1 inch or more | With thunderstorms | Total | In | Departure from normal | In | Mph. | Resultant speed | | | | Resultant direction | Speed | Direction | Fastest mile | Date | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | Max. 90° F. or above | Min. 32° F. or below | | | | | | | | | | Average dew point | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Ala. 1000 | 627 | MB | MB | 79 | 67 | 73 | 4.4 | 74 | 34 | 37 | 27 | 0 | 13 | 38 | 71 | 1.60 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 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1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 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CLIMATOLOGICAL DATA

ENGLISH UNITS

1931-1950

| State and Station | Pressure | | Temperature | | | | | | Precipitation | | | | Wind | | | No. of days (sunrise to sunset) | Sky cover, tenths (sunrise to sunset) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | Station Q | Sea level | Average maximum | Average minimum | Average | Departure from normal | Highest | Lowest | Date | No. of days | | Total | Greatest in 24 hours | No. of days | | | | Resultant speed | Direction | Fastest mile | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | Max. 90 F. or above | Min. 32 F. or below | | | Average dew point | Average relative humidity | | | | | | With thunderstorms | Ice pellets | Resultant direction | Speed | Date | Clear, 0-3 | Partly cloudy, 4-7 | Cloudy, 8-10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Elevation (ground) | Ft. | Mb. | Mb. | F. | F. | F. | F. | F. | F. | F. | F. | In. | In. | In. | In. | In. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | Mph. | 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DEFINITION 1975

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CLIMATOLOGICAL DATA

ENGLISH UNITS

| State and Station | Elevation (ground) | Pressure | | Temperature | | | | | | Precipitation | | | | Wind | | | | No. of days (sunrise to sunset) | | Sky cover, tenths (sunrise to sunset) | | | | | | | | | | |
|-------------------|--------------------|----------|-----------|-----------------|-----------------|---------|-----------------------|---------|--------|---------------|---------------------|---------------------|----------------------|-------------|--------------------|-------|-----------------------|---------------------------------|-----|---------------------------------------|-------------------|-----------------|---------------------|--------------|--------|------------|--------------------|--------------|-----------|------|
| | | Station | Sea level | Average maximum | Average minimum | Average | Departure from normal | Highest | Lowest | Date | No. of days | | Greatest in 24 hours | No. of days | With thunderstorms | Total | Departure from normal | In. | In. | | Snow, ice pellets | Resultant speed | Resultant direction | Fastest mile | | Clear, 0-3 | Partly cloudy, 4-7 | Cloudy, 8-10 | | |
| | | | | | | | | | | | Max. 90 F. or above | Min. 32 F. or below | | | | | | | | | | | | M.p.h. | M.p.h. | | | | Direction | Date |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| PACIFIC AREA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PAGE PAGO | 12 | 1007.5 | 1007.6 | 84 | 73 | 78.7 | -0.6 | 87 | 70 | 24 | 0 | 0 | 74 | 85 | 26.38 | 1.59 | 8.97 | 28 | 1 | 0.0 | 0 | 4.0 | 2 | 28 | NW | 12 | 0 | 1 | 30 | 0 |
| PONAPÉ | 123 | 1001.4 | 1006.9 | 88 | 75 | 81.3 | 1.1 | 90 | 70 | 24 | 0 | 0 | 75 | 82 | 19.93 | 1.59 | 4.10 | 27 | 2 | 0.0 | 0 | 6.0 | 2 | 21 | NW | 12 | 0 | 11 | 20 | 0 |
| PONAPÉ P | 5 | 1004.8 | 1007.1 | 87 | 77 | 81.0 | 1.1 | 88 | 74 | 24 | 0 | 0 | 75 | 79 | 13.57 | 0.33 | 3.78 | 17 | 0 | 0.0 | 0 | 10.1 | 4 | 23 | NW | 12 | 0 | 6 | 26 | 0 |
| TRUK MOEN ISLAND | 11 | 1012.5 | 1012.9 | 85 | 74 | 79.4 | 0.5 | 87 | 74 | 24 | 0 | 0 | 69 | 74 | 1.91 | 0.09 | 0.63 | 18 | 0 | 0.0 | 0 | 14.4 | 6 | 34 | NW | 13 | 15 | 14 | 2 | 3.9 |
| WAKÉ | 44 | | | 87 | 76 | 81.2 | 0.2 | 89 | 72 | 9 | 0 | 0 | 69 | 74 | 8.16 | -2.01 | 1.44 | 26 | 4 | 0.0 | 0 | 2.4 | 24 | NW | 10 | 0 | 8 | 23 | 0 |
| YAP P | | | | 87 | 76 | 81.2 | 0.2 | 89 | 72 | 9 | 0 | 0 | 69 | 74 | 8.16 | -2.01 | 1.44 | 26 | 4 | 0.0 | 0 | 2.4 | 24 | NW | 10 | 0 | 8 | 23 | 0 |
| PENNSYLVANIA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ALLENTOWN | 387 | 1002.0 | 1016.7 | 37 | 24 | 30.7 | -0.6 | 63 | 2 | 11 | 31 | 0 | 29 | 74 | 2.80 | -0.47 | 1.07 | 14 | 0 | 6.8 | 4 | 4.7 | 37 | 29 | 6 | 6 | 19 | 7.0 | 6 | 22 | 8.1 |
| PHILADELPHIA | 338 | 1008.8 | 1015.3 | 37 | 25 | 30.8 | -0.3 | 62 | 2 | 12 | 31 | 0 | 29 | 74 | 2.80 | -0.47 | 1.07 | 14 | 0 | 6.8 | 4 | 4.7 | 37 | 29 | 6 | 6 | 19 | 7.0 | 6 | 22 | 8.1 |
| HARRISBURG | 338 | 1008.8 | 1015.3 | 37 | 25 | 30.8 | -0.3 | 62 | 2 | 12 | 31 | 0 | 29 | 74 | 2.80 | -0.47 | 1.07 | 14 | 0 | 6.8 | 4 | 4.7 | 37 | 29 | 6 | 6 | 19 | 7.0 | 6 | 22 | 8.1 |
| PHILADELPHIA | 338 | 1008.8 | 1015.3 | 37 | 25 | 30.8 | -0.3 | 62 | 2 | 12 | 31 | 0 | 29 | 74 | 2.80 | -0.47 | 1.07 | 14 | 0 | 6.8 | 4 | 4.7 | 37 | 29 | 6 | 6 | 19 | 7.0 | 6 | 22 | 8.1 |
| PITTSBURGH | 1137 | 971.6 | 1016.8 | 42 | 29 | 35.8 | 1.9 | 66 | 2 | 17 | 27 | 0 | 51 | 66 | 3.27 | 0.33 | 1.76 | 11 | 1 | 1.1 | 1 | 5.2 | 30 | 36 | NW | 4 | 6 | 9 | 17 | 4.4 |
| PITTSBURGH | 1137 | 971.6 | 1016.8 | 42 | 29 | 35.8 | 1.9 | 66 | 2 | 17 | 27 | 0 | 51 | 66 | 3.27 | 0.33 | 1.76 | 11 | 1 | 1.1 | 1 | 5.2 | 30 | 36 | NW | 4 | 6 | 9 | 17 | 4.4 |
| SCRANTON | 920 | 981.4 | 1016.3 | 33 | 22 | 27.3 | -2.1 | 57 | 2 | 9 | 30 | 0 | 30 | 74 | 1.85 | -0.62 | 0.52 | 14 | 0 | 12.3 | 4 | 5.0 | 27 | 30 | NW | 4 | 3 | 2 | 26 | 8.2 |
| WILLIAMSPORT | 524 | 997.0 | 1016.6 | 39 | 27 | 32.8 | -2.4 | 64 | 2 | 12 | 31 | 0 | 25 | 73 | 4.12 | 1.08 | 1.22 | 16 | 1 | 14.8 | 6 | 2.7 | 30 | 27 | 6 | 3 | 6 | 22 | 8.1 | 14 | 3 |
| RHODE ISLAND | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BLOCK ISLAND | 119 | | | 40 | 28 | 33.7 | -2.2 | 57 | 4 | 16 | 8 | 0 | 24 | 69 | 2.97 | -0.62 | 1.42 | 13 | 0 | 4.2 | 1 | 8.7 | 33 | 30 | 20 | 6 | 7 | 18 | 6.4 | 6.4 | 6.4 |
| PROVIDENCE | 51 | 1012.2 | 1014.4 | 36 | 21 | 28.5 | -3.5 | 62 | 2 | 10 | 16 | 0 | 30 | 69 | 4.54 | 0.92 | 2.25 | 14 | 0 | 17.8 | 3 | 4.2 | 33 | 30 | 20 | 6 | 7 | 18 | 6.4 | 6.4 | 6.4 |
| SOUTH CAROLINA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CHARLESTON | 40 | 1017.6 | 1019.4 | 65 | 39 | 52.1 | 2.1 | 79 | 23 | 24 | 15 | 0 | 41 | 70 | 2.90 | 0.05 | 1.42 | 5 | 1 | 0.0 | 0 | 3.7 | 26 | 40 | N | 21 | 14 | 9 | 8 | 4.4 | 7.3 |
| CHARLESTON H | 9 | | | 63 | 47 | 55.1 | 3.4 | 77 | 4 | 30 | 27 | 0 | 2 | 70 | 2.82 | 1.03 | 1.32 | 5 | 1 | 0.0 | 0 | 3.7 | 26 | 40 | N | 21 | 14 | 9 | 8 | 4.4 | 7.3 |
| COLUMBIA | 213 | 1010.8 | 1016.0 | 64 | 37 | 50.1 | 3.7 | 80 | 23 | 20 | 13 | 0 | 39 | 70 | 4.55 | 1.03 | 3.18 | 8 | 1 | 0.0 | 0 | 3.1 | 27 | 28 | 30 | 25 | 13 | 6 | 12 | 5.1 | 6.3 |
| GENUINE SPORTS | 957 | 983.7 | 1016.8 | 56 | 33 | 44.7 | 1.1 | 75 | 2 | 14 | 27 | 0 | 17 | 34 | 2.88 | -1.15 | 1.37 | 8 | 0 | 2.9 | 2 | 2.4 | 26 | 25 | NW | 11 | 10 | 7 | 14 | 5.7 | 6.1 |
| SOUTH DAKOTA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ABERDEEN | 1296 | 968.2 | 1017.5 | 25 | 2 | 13.8 | -4.3 | 44 | 2 | -14 | 28 | 0 | 31 | 6 | 0.19 | -0.42 | 0.08 | 4 | 0 | 3.9 | 3 | 2.2 | 30 | 31 | 3+ | 11 | 8 | 12 | 4.5 | 4.5 | 4.5 |
| HURON | 1291 | 968.5 | 1017.5 | 26 | 4 | 15.1 | -3.7 | 51 | 4 | -18 | 20 | 0 | 31 | 8 | 0.44 | -0.12 | 0.39 | 5 | 0 | 7.8 | 4 | 1.8 | 27 | 42 | NW | 3 | 10 | 7 | 14 | 5.8 | 6.4 |
| RAPID CITY | 3162 | 901.5 | 1016.3 | 34 | 10 | 21.9 | -5.3 | 61 | 7 | -11 | 21 | 0 | 31 | 10 | 0.61 | 0.31 | 0.35 | 4 | 0 | 7.8 | 5 | 5.0 | 33 | 52 | W | 1 | 12 | 8 | 11 | 5.1 | 5.9 |
| STOUX FALLS | 1418 | 963.4 | 1017.4 | 26 | 5 | 15.6 | -5.5 | 60 | 8 | -15 | 24 | 0 | 31 | 10 | 0.54 | -0.20 | 0.46 | 6 | 0 | 8.5 | 8 | 2.4 | 30 | 35 | 29 | 3 | 11 | 6 | 14 | 5.9 | 5.9 |
| TENNESSEE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BRIXTON | 1507 | 963.8 | 1018.9 | 51 | 32 | 41.2 | 2.9 | 74 | 1 | 14 | 26 | 0 | 17 | 31 | 3.40 | 0.19 | 1.34 | 12 | 0 | 4.2 | 3 | 2.4 | 26 | 28 | 26+ | 8 | 5 | 18 | 6.7 | 4.5 | 4.5 |
| CHATTANOOGA | 465 | 993.9 | 1019.2 | 55 | 34 | 44.2 | 1.7 | 74 | 23 | 17 | 27 | 0 | 15 | 35 | 4.30 | -0.89 | 1.83 | 11 | 0 | 3.3 | 3 | 1.2 | 29 | 26 | 23 | 9 | 7 | 15 | 6.4 | 4.5 | 4.5 |
| KNOXVILLE | 980 | 983.4 | 1019.0 | 54 | 35 | 44.1 | 2.5 | 75 | 3 | 17 | 26 | 0 | 16 | 33 | 4.67 | 0.44 | 2.41 | 12 | 0 | 6.3 | 3 | 1.2 | 29 | 26 | 23 | 9 | 7 | 15 | 6.4 | 4.5 | 4.5 |
| MEMPHIS | 258 | 1009.1 | 1019.4 | 56 | 37 | 46.4 | 3.9 | 75 | 3 | 17 | 26 | 0 | 11 | 35 | 3.71 | -1.22 | 0.97 | 12 | 4 | 1.0 | 1 | 2.1 | 23 | 32 | NW | 26 | 8 | 6 | 17 | 6.7 | 4.8 |
| NASHVILLE | 590 | 997.0 | 1019.0 | 53 | 34 | 43.2 | 1.8 | 74 | 3 | 13 | 26 | 0 | 17 | 34 | 3.60 | -0.59 | 1.19 | 12 | 2 | 1.2 | 1 | 2.0 | 24 | 30 | NW | 26 | 7 | 6 | 18 | 6.7 | 4.1 |
| OAK RIDGE P | 926 | | | 52 | 34 | 42.5 | 2.4 | 72 | 3 | 17 | 26 | 0 | 14 | 36 | 4.47 | -1.43 | 1.50 | 13 | 0 | 5.4 | 3 | 2.0 | 24 | 30 | NW | 26 | 8 | 2 | 21 | 7.3 | 7.3 |
| TEXAS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ABILENE | 1762 | 958.0 | 1017.2 | 65 | 38 | 51.5 | 5.4 | 80 | 3 | 19 | 24 | 0 | 10 | 52 | 0.24 | -1.02 | 0.24 | 2 | 0 | 0.0 | 0 | 4.4 | 21 | 43 | W | 15 | 12 | 9 | 10 | 5.0 | 7.2 |
| AMARILLO | 3604 | 889.9 | 1016.7 | 59 | 28 | 43.4 | 4.1 | 74 | 14 | 25 | 0 | 22 | 18 | 40 | 0.11 | -0.72 | 0.06 | 5 | 0 | 0.0 | 0 | 6.7 | 21 | 30 | NW | 15 | 12 | 9 | 10 | 4.6 | 8.2 |
| AUSTIN | 597 | 994.6 | 1017.8 | 69 | 48 | 58.7 | 6.0 | 81 | 21 | 24 | 0 | 2 | 44 | 76 | 0.11 | -0.42 | 0.06 | 5 | 0 | 0.0 | 0 | 1.0 | 22 | 32 | SE | 15 | 10 | 17 | 4.7 | 4.7 | 4.7 |
| BROWNSVILLE | 19 | 1018.6 | 1017.1 | 79 | 61 | 69.8 | 6.9 | 87 | 29 | 44 | 17 | 0 | 40 | 76 | 0.12 | -0.60 | 0.25 | 5 | 1 | 0.0 | 0 | 4.5 | 15 | 31 | SE | 15 | 10 | 17 | 4.7 | 4.7 | 4.7 |
| CORPUS CHRISTI | 41 | 1018.6 | 1017.1 | 79 | 61 | 69.8 | 6.9 | 87 | 29 | 44 | 17 | 0 | 40 | 76 | 0.12 | -0.60 | 0.25 | 5 | 1 | 0.0 | 0 | 4.5 | 15 | 31 | SE | 15 | 10 | 17 | 4.7 | 4.7 | 4.7 |
| DALLAS | 481 | 1200.3 | 1017.7 | 66 | 46 | 55.5 | 7.4 | 83 | 3 | 26 | 24 | 0 | 3 | 76 | 0.94 | -1.73 | 0.73 | 2 | 0 | 0.0 | 0 | 2.4 | 17 | 29 | SE | 21 | 10 | 11 | 6.3 | 4.8 | 7.2 |
| DEL RIO | 1326 | 983.7 | 1017.3 | 69 | 46 | 57.7 | 5.4 | 83 | 3 | 26 | 24 | 0 | 3 | 76 | 0.12 | -0.70 | 0.05 | 5 | 0 | 0.0 | 0 | 2.4 | 17 | 29 | SE | 21 | 10 | 11 | 6.3 | 4.8 | 7.2 |
| EL PASO | 3318 | 983.2 | 1016.6 | 64 | 32 | 48.0 | 3.9 | 75 | 4 | 19 | 12 | 0 | 43 | 66 | 0.06 | -0.43 | 0.06 | 1 | 0 | 0.0 | 0 | 1.2 | 28 | 66 | W | 15 | 13 | 10 |

| State and Station | Elevation (ground) | Pressure | | Temperature | | | | | Precipitation | | | | | Wind | | | | No. of days (sunrise to sunset) | Sky cover, tenths (sunrise to sunset) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | | Station Q | Sea level | Average maximum | Average minimum | Average | Departure from normal | Highest | Date | Lowest | No. of days | | Greatest in 24 hours | Total | Departure from normal | With thunderstorms | Ice pellets | | | Resultant speed | Fastest mile | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | Max. 90 F. or above | Min. 32 F. or below | | | | | Average relative humidity | | | | In. | Mph. | In. | Mph. | Direction | Speed | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Ft. | Mb. | F. | Mb. | F. | F. | F. | F. | F. | F. | In. | In. | In. | In. | Mph. | Mph. | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | | | | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° |

Data from airport unless otherwise specified. U indicates Urban, R indicates Rural, sites.

Precipitation data in column headed "Greatest in 24 hours" are computed on a 24-hour basis without regard to calendar day-data may include precipitation with a measurable amount from the last day of the previous month or the first day of the following month.

Wind directions under resultant direction are in tens of degrees.

Value entered in column "Fastest Mile" is the highest observed 1-minute wind speed when the direction is in tens of degrees. These stations are not equipped with a recording anemometer from which "Fastest Mile" data can be evaluated.

B Number of days maximum 70° F. or above for Alaskan Stations.

Y peak Gust.

• And also on an earlier date or dates.
Ø Station pressures apply to elevations

Station pressures apply to elevations shown in the "Elevations - Station Pressure" table of the annual issue of this publication.
Z Sun continuously below horizon.

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CLIMATOLOGICAL DATA

METRIC UNITS

| State and Station | Elevation (ground) | Pressure | | Temperature | | | | | | Precipitation | | | | Wind | | | | No. of days (sunrise to sunset) | Possible sunshine | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------|--------------------|----------|-----------|-----------------|-----------------|---------|-----------------------|---------|------|---------------|------|--------------------|------------------|-------------------|---------------------------|-------------|-------------|---------------------------------|-------------------|-------|-----------------------|----------------------|----------------|--------------------|-------------|-------|-------------------------|-----------------|---------------------|-------|-----------|------|-------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| | | Station | Sea level | Average maximum | Average minimum | Average | Departure from normal | Highest | Date | Lowest | Date | Max 32.2° or above | Min. 0° or lower | Average dew point | Average relative humidity | No. of days | | | | Total | Departure from normal | Greatest in 24 hours | 25 mm. or more | With thunderstorms | Ice pellets | Snow. | Maximum depth on ground | Resultant speed | Resultant direction | Speed | Direction | Date | Fastest mile (1.6 kilometers) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | No. of days | No. of days | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ALABAMA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

CLIMATOLOGICAL DATA

METRIC UNITS

1971-2000

| State and Station | Elevation ground | | Pressure | | Temperature | | | | | | Precipitation | | | | Wind | | | | No. of days
exceeds or
surpasses | | | Sky cover, tenths
(sunrise to sunset) | | | | | | | |
|--|------------------|-----------|-----------------|-----------------|------------------------|---------|--------|--------|-------|-------------------------------------|------------------------|--------------------------------|-------|----|-----------------------|----|----------------------------|------------------------------|--|-------------|--------------------------|--|--------------------|-----------------|-----------|------|-----------|-------------------|-------------|
| | Station
Q | Sea level | Average maximum | Average minimum | Average
from normal | Date | | Lowest | Date | Max 32.2 °C or above
No. of days | Average dew point
C | Average relative humidity
% | Total | | Departure from normal | | Greatest in 24 hours
mm | 25 mm or more
No. of days | With thunderstorms
No. of days | Total
mm | Residual speed
M.p.s. | | Residual direction | Speed
M.p.s. | Direction | Date | Clear 0-3 | Partly cloudy 4-7 | Cloudy 8-10 |
| | | | | | | Highest | Lowest | | | | | | mm | mm | mm | mm | | | | | | | | | | | | | |
| COLORADO
DENVER
DENVER
DENVER
DENVER | W | Mb | Mb | Mb | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C |
| | 1873 | 807.4 | 1016.2 | 8.1 | 7.2 | 0.5 | 18.3 | 8 | -15.4 | 23 | 0 | -12.8 | 67 | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 1.2 | 1 | 17.7 | SW | 80 | 23 | 7 | 1.4 |
| | 1810 | 822.4 | 1013.8 | 10.0 | 8.3 | 0.7 | 20.0 | 8 | -15.4 | 26 | 0 | -12.8 | 66 | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 1.2 | 1 | 17.7 | SW | 80 | 23 | 7 | 1.4 |
| | 1676 | 813.4 | 1013.2 | 5.4 | 5.4 | 1.4 | 12.2 | 17 | -11.7 | 26 | 0 | -12.8 | 67 | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 1.2 | 1 | 17.7 | SW | 80 | 23 | 7 | 1.4 |
| | 1628 | 802.4 | 1014.5 | 14.4 | 11.2 | 1.4 | 12.2 | 17 | -11.7 | 26 | 0 | -12.8 | 67 | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 1.2 | 1 | 17.7 | SW | 80 | 23 | 7 | 1.4 |
| CONNECTICUT
HARTFORD
HARTFORD
HARTFORD
HARTFORD | 2 | 1014.4 | 1016.2 | 3.2 | 3.3 | 0.4 | 18.6 | 4 | -9.9 | 8 | 0 | -12.8 | 64 | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 1.2 | 1 | 17.7 | SW | 80 | 23 | 7 | 1.4 |
| | 67 | 1009.4 | 1014.9 | 1.1 | 1.2 | 2.9 | 19.8 | 2 | -15.0 | 16 | 0 | -12.8 | 66 | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 1.2 | 1 | 17.7 | SW | 80 | 23 | 7 | 1.4 |
| | 27 | 1013.8 | 1016.6 | 6.1 | 1.7 | 0.4 | 19.4 | 2 | -24.4 | 10 | 0 | -12.8 | 67 | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 1.2 | 1 | 17.7 | SW | 80 | 23 | 7 | 1.4 |
| | 80 | 1008.8 | 1017.7 | 7.3 | 3.3 | 3.4 | 20.9 | 2 | -9.4 | 29 | 0 | -12.8 | 66 | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 1.2 | 1 | 17.7 | SW | 80 | 23 | 7 | 1.4 |
| | 3 | 1115.2 | 1017.6 | 9.1 | 0.7 | 4.3 | 20.8 | 1 | -6.1 | 10 | 0 | -12.8 | 66 | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 1.2 | 1 | 17.7 | SW | 80 | 23 | 7 | 1.4 |
| DISTRICT OF COLUMBIA
WASHINGTON, D.C.
WASHINGTON, D.C.
WASHINGTON, D.C.
WASHINGTON, D.C. | 0 | 1013.4 | 1016.2 | 19.4 | 16.2 | 1.4 | 20.9 | 2 | -15.4 | 26 | 0 | -12.8 | 67 | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 1.2 | 1 | 17.7 | SW | 80 | 23 | 7 | 1.4 |
| | 0 | 1013.4 | 1016.2 | 19.4 | 16.2 | 1.4 | 20.9 | 2 | -15.4 | 26 | 0 | -12.8 | 67 | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 1.2 | 1 | 17.7 | SW | 80 | 23 | 7 | 1.4 |
| | 0 | 1013.4 | 1016.2 | 19.4 | 16.2 | 1.4 | 20.9 | 2 | -15.4 | 26 | 0 | -12.8 | 67 | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 1.2 | 1 | 17.7 | SW | 80 | 23 | 7 | 1.4 |
| | 0 | 1013.4 | 1016.2 | 19.4 | 16.2 | 1.4 | 20.9 | 2 | -15.4 | 26 | 0 | -12.8 | 67 | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 1.2 | 1 | 17.7 | SW | 80 | 23 | 7 | 1.4 |
| | 0 | 1013.4 | 1016.2 | 19.4 | 16.2 | 1.4 | 20.9 | 2 | -15.4 | 26 | 0 | -12.8 | 67 | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 1.2 | 1 | 17.7 | SW | 80 | 23 | 7 | 1.4 |
| FLORIDA
MIAMI
MIAMI
MIAMI
MIAMI | 0 | 1013.4 | 1016.2 | 19.4 | 16.2 | 1.4 | 20.9 | 2 | -15.4 | 26 | 0 | -12.8 | 67 | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 1.2 | 1 | 17.7 | SW | 80 | 23 | 7 | 1.4 |
| | 0 | 1013.4 | 1016.2 | 19.4 | 16.2 | 1.4 | 20.9 | 2 | -15.4 | 26 | 0 | -12.8 | 67 | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 1.2 | 1 | 17.7 | SW | 80 | 23 | 7 | 1.4 |
| | 0 | 1013.4 | 1016.2 | 19.4 | 16.2 | 1.4 | 20.9 | 2 | -15.4 | 26 | 0 | -12.8 | 67 | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 1.2 | 1 | 17.7 | SW | 80 | 23 | 7 | 1.4 |
| | 0 | 1013.4 | 1016.2 | 19.4 | 16.2 | 1.4 | 20.9 | 2 | -15.4 | 26 | 0 | -12.8 | 67 | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 1.2 | 1 | 17.7 | SW | 80 | 23 | 7 | 1.4 |
| | 0 | 1013.4 | 1016.2 | 19.4 | 16.2 | 1.4 | 20.9 | 2 | -15.4 | 26 | 0 | -12.8 | 67 | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 1.2 | 1 | 17.7 | SW | 80 | 23 | 7 | 1.4 |
| GEORGIA
ATLANTA
ATLANTA
ATLANTA
ATLANTA | 0 | 1013.4 | 1016.2 | 19.4 | 16.2 | 1.4 | 20.9 | 2 | -15.4 | 26 | 0 | -12.8 | 67 | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 1.2 | 1 | 17.7 | SW | 80 | 23 | 7 | 1.4 |
| | 0 | 1013.4 | 1016.2 | 19.4 | 16.2 | 1.4 | 20.9 | 2 | -15.4 | 26 | 0 | -12.8 | 67 | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 1.2 | 1 | 17.7 | SW | 80 | 23 | 7 | 1.4 |
| | 0 | 1013.4 | 1016.2 | 19.4 | 16.2 | 1.4 | 20.9 | 2 | -15.4 | 26 | 0 | -12.8 | 67 | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 1.2 | 1 | 17.7 | SW | 80 | 23 | 7 | 1.4 |
| | 0 | 1013.4 | 1016.2 | 19.4 | 16.2 | 1.4 | 20.9 | 2 | -15.4 | 26 | 0 | -12.8 | 67 | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 1.2 | 1 | 17.7 | SW | 80 | 23 | 7 | 1.4 |
| | 0 | 1013.4 | 1016.2 | 19.4 | 16.2 | 1.4 | 20.9 | 2 | -15.4 | 26 | 0 | -12.8 | 67 | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 1.2 | 1 | 17.7 | SW | 80 | 23 | 7 | 1.4 |
| HAWAII
HONOLULU
HONOLULU
HONOLULU
HONOLULU | 0 | 1013.4 | 1016.2 | 19.4 | 16.2 | 1.4 | 20.9 | 2 | -15.4 | 26 | 0 | -12.8 | 67 | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 1.2 | 1 | 17.7 | SW | 80 | 23 | 7 | 1.4 |
| | 0 | 1013.4 | 1016.2 | 19.4 | 16.2 | 1.4 | 20.9 | 2 | -15.4 | 26 | 0 | -12.8 | 67 | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 1.2 | 1 | 17.7 | SW | 80 | 23 | 7 | 1.4 |
| | 0 | 1013.4 | 1016.2 | 19.4 | 16.2 | 1.4 | 20.9 | 2 | -15.4 | 26 | 0 | -12.8 | 67 | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 1.2 | 1 | 17.7 | SW | 80 | 23 | 7 | 1.4 |
| | 0 | 1013.4 | 1016.2 | 19.4 | 16.2 | 1.4 | 20.9 | 2 | -15.4 | 26 | 0 | -12.8 | 67 | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 1.2 | 1 | 17.7 | SW | 80 | 23 | 7 | 1.4 |
| | 0 | 1013.4 | 1016.2 | 19.4 | 16.2 | 1.4 | 20.9 | 2 | -15.4 | 26 | 0 | -12.8 | 67 | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 1.2 | 1 | 17.7 | SW | 80 | 23 | 7 | 1.4 |
| IDAHO
BOISE
BOISE
BOISE
BOISE | 0 | 1013.4 | 1016.2 | 19.4 | 16.2 | 1.4 | 20.9 | 2 | -15.4 | 26 | 0 | -12.8 | 67 | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 1.2 | 1 | 17.7 | SW | 80 | 23 | 7 | 1.4 |
| | 0 | 1013.4 | 1016.2 | 19.4 | 16.2 | 1.4 | 20.9 | 2 | -15.4 | 26 | 0 | -12.8 | 67 | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 1.2 | 1 | 17.7 | SW | 80 | 23 | 7 | 1.4 |
| | 0 | 1013.4 | 1016.2 | 19.4 | 16.2 | 1.4 | 20.9 | 2 | -15.4 | 26 | 0 | -12.8 | 67 | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 1.2 | 1 | 17.7 | SW | 80 | 23 | 7 | 1.4 |
| | 0 | 1013.4 | 1016.2 | 19.4 | 16.2 | 1.4 | 20.9 | 2 | -15.4 | 26 | 0 | -12.8 | 67 | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 1.2 | 1 | 17.7 | SW | 80 | 23 | 7 | 1.4 |
| | 0 | 1013.4 | 1016.2 | 19.4 | 16.2 | 1.4 | 20.9 | 2 | -15.4 | 26 | 0 | -12.8 | 67 | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 1.2 | 1 | 17.7 | SW | 80 | 23 | 7 | 1.4 |
| ILLINOIS
CHICAGO
CHICAGO
CHICAGO
CHICAGO | 0 | 1013.4 | 1016.2 | 19.4 | 16.2 | 1.4 | 20.9 | 2 | -15.4 | 26 | 0 | -12.8 | 67 | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 1.2 | 1 | 17.7 | SW | 80 | 23 | 7 | 1.4 |
| | 0 | 1013.4 | 1016.2 | 19.4 | 16.2 | 1.4 | 20.9 | 2 | -15.4 | 26 | 0 | -12.8 | 67 | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 1.2 | 1 | 17.7 | SW | 80 | 23 | 7 | 1.4 |
| | 0 | 1013.4 | 1016.2 | 19.4 | 16.2 | 1.4 | 20.9 | 2 | -15.4 | 26 | 0 | -12.8 | 67 | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 1.2 | 1 | 17.7 | SW | 80 | 23 | 7 | 1.4 |
| | 0 | 1013.4 | 1016.2 | 19.4 | 16.2 | 1.4 | 20.9 | 2 | -15.4 | 26 | 0 | -12.8 | 67 | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 1.2 | 1 | 17.7 | SW | 80 | 23 | 7 | 1.4 |
| | 0 | 1013.4 | 1016.2 | 19.4 | 16.2 | 1.4 | 20.9 | 2 | -15.4 | 26 | 0 | -12.8 | 67 | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 1.2 | 1 | 17.7 | SW | 80 | 23 | 7 | 1.4 |
| INDIANA
INDIANAPOLIS
INDIANAPOLIS
INDIANAPOLIS
INDIANAPOLIS | 0 | 1013.4 | 1016.2 | 19.4 | 16.2 | 1.4 | 20.9 | 2 | -15.4 | 26 | 0 | -12.8 | 67 | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 1.2 | 1 | 17.7 | SW | 80 | 23 | 7 | 1.4 |
| | 0 | 1013.4 | 1016.2 | 19.4 | 16.2 | 1.4 | 20.9 | 2 | -15.4 | 26 | 0 | -12.8 | 67 | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 1.2 | 1 | 17.7 | SW | 80 | 23 | 7 | 1.4 |
| | 0 | 1013.4 | 1016.2 | 19.4 | 16.2 | 1.4 | 20.9 | 2 | -15.4 | 26 | 0 | -12.8 | 67 | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 1.2 | 1 | 17.7 | SW | 80 | 23 | 7 | 1.4 |
| | 0 | 1013.4 | 1016.2 | 19.4 | 16.2 | 1.4 | 20.9 | 2 | -15.4 | 26 | 0 | -12.8 | 67 | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 1.2 | 1 | 17.7 | SW | 80 | 23 | 7 | 1.4 |
| | 0 | 1013.4 | 1016.2 | 19.4 | 16.2 | 1.4 | 20.9 | 2 | -15.4 | 26 | 0 | -12.8 | 67 | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 1.2 | 1 | 17.7 | SW | 80 | 23 | 7 | 1.4 |

See footnotes at end of table

CLIMATOLOGICAL DATA

METRIC UNITS

SECTION 127C

| State and Station | Pressure | | Temperature | | | | | | Precipitation | | | | Wind | | | | No. of days
(sunrise to sunset) | | Possible sunshine
(sunrise to sunset) | | | | | | | | | | | | | | |
|-----------------------------|--------------------|-----------|-------------|---------|---------|-------|-----------------------|---------|----------------------|---------|--------|------|-------------------|-------|-------------------|---------------------------|------------------------------------|----|--|----------------------|-------------|-------------------|-----|-----------------|---------------------|----------------------------------|-----|-----------|------|------------|--------------------|--------------|--|
| | Elevation (ground) | Station Q | Sea level | Average | | | Departure from normal | | | Highest | Lowest | Date | No. of days | | Average dew point | Average relative humidity | Total | | | Greatest in 24 hours | No. of days | Snow, ice pellets | | Resultant speed | Resultant direction | Fastest mile
(1.6 kilometers) | | Direction | Date | Clear, 0-3 | Partly cloudy, 4-7 | Cloudy, 8-10 | Sky cover, tenths
(sunrise to sunset) |
| | | | | Maximum | Minimum | C. | F. | Average | Max 32.2 °C or above | | | | Min 0 °C or lower | C. | | | F. | ° | | | | mm. | in. | | | mm. | in. | | | | | | |
| INDIANA
FORT WAYNE | 241 | 986.5 | 1017.4 | 3.0 | -4.4 | -0.3 | 1.7 | 19.4 | 1 | -15.0 | 26 | 0 | 24 | -3.3 | 80 | 34 | -19 | 11 | 9 | 1 | 165 | 76 | 2.0 | 25 | 19.2 | W | 3 | 2 | 9 | 20 | 7.9 | 35 | |
| INDIANAPOLIS
SOUTH BEND | 241 | 987.5 | 1017.4 | 6.0 | -3.3 | 1.5 | 2.6 | 21.1 | 1 | -18.9 | 29 | 0 | 24 | -3.3 | 71 | 63 | -15 | 16 | 0 | 1 | 112 | 1.7 | 24 | 21.5 | W | 3 | 7 | 4 | 19 | 7.0 | 44 | | |
| | 236 | 987.6 | 1016.5 | 3.3 | -5.0 | -0.9 | 0.9 | 10.4 | 1 | -18.9 | 29 | 0 | 25 | -4.4 | 78 | 45 | -10 | 9 | 14 | 0 | 508 | 203 | 1.6 | 24 | 17.4 | 26 | 1 | 8 | 22 | 8.4 | | | |
| IOWA
BURLINGTON | 211 | 981.7 | 1017.6 | 3.3 | -5.6 | -1.2 | 0.8 | 21.7 | 3 | -15.0 | 24 | 0 | 27 | -6.1 | 69 | 50 | 10 | 34 | 6 | 1 | 25 | 7 | 1.2 | 28 | 15.6 | W | 3 | 11 | 5 | 15 | 5.9 | 56 | |
| DES MOINES | 286 | 976.6 | 1017.6 | 2.8 | -6.1 | -1.8 | 1.9 | 18.9 | 1 | -15.6 | 24 | 0 | 28 | -7.8 | 66 | 21 | -8 | 17 | 6 | 1 | 36 | 7 | 0.9 | 29 | 20.1 | W | 3 | 11 | 8 | 12 | 5.5 | | |
| DUBUIE | 322 | 976.6 | 1017.6 | 0.0 | -8.9 | -4.6 | 1.9 | 17.8 | 3 | -21.7 | 24 | 0 | 30 | -8.9 | 80 | 40 | -9 | 19 | 7 | 1 | 279 | 25 | 0.3 | 30 | 19.2 | W | 3 | 10 | 5 | 16 | 6.1 | 57 | |
| SIoux CITY | 334 | 976.3 | 1018.0 | 0.6 | -11.7 | -5.6 | 1.7 | 17.8 | 8 | -20.6 | 23 | 0 | 30 | -8.9 | 80 | 27 | 8 | 24 | 6 | 1 | 178 | 152 | 1.0 | 30 | 19.2 | W | 3 | 10 | 5 | 16 | 6.4 | | |
| WATERLOO | 265 | 984.4 | 1017.8 | -1.7 | -12.2 | -7.0 | -2.1 | 14.4 | 34 | -23.3 | 24 | 0 | 31 | -11.1 | 72 | 29 | 0 | 22 | 8 | 2 | 185 | 142 | 1.0 | 31 | 15.6 | 31 | 5 | 11 | 5 | 15 | 5.7 | | |
| KANSAS
CONCORDIA | 448 | 962.4 | 1016.8 | 7.2 | -6.1 | 0.6 | 0.6 | 18.9 | 1 | -13.9 | 25 | 0 | 27 | -5.6 | 67 | 1 | -17 | 1 | 2 | 0 | 5 | 7 | 0.9 | 24 | 15.6 | NW | 22 | 14 | 7 | 10 | 4.6 | 64 | |
| DODGE CITY | 787 | 923.5 | 1016.2 | 10.0 | -5.0 | 2.4 | 0.9 | 18.3 | 8 | -13.3 | 23 | 0 | 28 | -7.8 | 64 | 1 | -11 | 1 | 2 | 0 | 7 | 7 | 1.5 | 25 | 21.5 | NW | 3 | 12 | 7 | 12 | 5.2 | 69 | |
| GODDARD | 1114 | 886.5 | 1015.2 | 9.4 | -8.3 | 0.6 | 1.4 | 21.1 | 8 | -16.1 | 25 | 0 | 31 | -9.4 | 56 | 42 | 7 | 20 | 4 | 1 | 201 | 152 | 0.6 | 28 | 17.9 | 30 | 3 | 17 | 8 | 6 | 3.7 | 60 | |
| TOPEKA | 267 | 985.1 | 1017.8 | 6.7 | -4.4 | 1.3 | 0.5 | 18.9 | 2 | -10.6 | 25 | 0 | 28 | -4.4 | 69 | 12 | -11 | 12 | 3 | 0 | 7 | 7 | 0.7 | 25 | 16.5 | N | 22 | 10 | 9 | 12 | 5.5 | 62 | |
| WICHITA | 493 | 968.2 | 1017.1 | 9.4 | -4.4 | 2.7 | 0.6 | 20.0 | 2 | -10.6 | 12 | 0 | 27 | -3.9 | 66 | 84 | 14 | 23 | 9 | 1 | 10 | 7 | 2.2 | 24 | 14.3 | 22 | 1 | 6 | 19 | 7.1 | | | |
| KENTUCKY
COVINGTON | 265 | 986.4 | 1017.8 | 8.3 | -1.7 | 3.3 | 2.6 | 21.1 | 1 | -12.8 | 26 | 0 | 18 | -2.8 | 66 | 84 | 14 | 23 | 9 | 1 | 10 | 7 | 2.2 | 24 | 14.3 | 22 | 1 | 6 | 19 | 7.1 | | | |
| LEXINGTON | 294 | 982.6 | 1018.7 | 8.9 | -1.7 | 3.5 | 1.3 | 21.1 | 34 | -13.3 | 26 | 0 | 18 | -1.1 | 70 | 106 | 24 | 50 | 8 | 0 | 20 | 25 | 1.6 | 25 | 15.2 | W | 3 | 7 | 6 | 18 | 7.0 | 43 | |
| LOUISVILLE | 145 | 1000.3 | 1018.4 | 8.9 | -0.6 | 4.2 | 1.9 | 22.2 | 3 | -10.0 | 26 | 0 | 18 | -1.1 | 70 | 106 | 24 | 50 | 8 | 0 | 20 | 25 | 1.6 | 25 | 15.2 | W | 3 | 7 | 6 | 18 | 7.0 | | |
| LOUISIANA
ALEXANDRIA | 28 | 1015.2 | 1019.7 | 17.8 | 5.6 | 11.9 | 1.2 | 25.6 | 1 | -3.9 | 26 | 0 | 8 | -60 | 26 | 86 | -60 | 26 | 9 | 3 | 0 | 0 | 0.3 | 8 | 10.7 | 33 | 25 | 11 | 5 | 15 | 6.1 | | |
| BATON ROUGE | 20 | 1016.0 | 1019.4 | 19.4 | 7.2 | 13.4 | 1.9 | 26.7 | 224 | -1.7 | 274 | 0 | 2 | 8.9 | 78 | 170 | 40 | 53 | 9 | 3 | 0 | 0 | 0.5 | 11 | 10.7 | 34 | 25 | 8 | 11 | 12 | 6.3 | | |
| LAKE CHARLES | 3 | 1018.0 | 1019.0 | 20.6 | 10.0 | 15.3 | 2.8 | 26.7 | 54 | -1.7 | 274 | 0 | 2 | 11.1 | 80 | 104 | -42 | 45 | 7 | 3 | 0 | 0 | 1.3 | 14 | 13.4 | 34 | 30 | 9 | 11 | 17 | 6.0 | | |
| NEW ORLEANS | 1 | 1018.6 | 1019.6 | 20.6 | 8.3 | 14.4 | 1.4 | 28.3 | 22 | -2.2 | 274 | 0 | 2 | 10.6 | 79 | 100 | -42 | 45 | 7 | 3 | 0 | 0 | 0.4 | 6 | 9.8 | 29 | 16 | 9 | 11 | 12 | 5.6 | 45 | |
| SHREVEPORT | 77 | 1009.1 | 1018.4 | 18.3 | 6.7 | 12.4 | 2.6 | 26.1 | 1 | -6.4 | 26 | 0 | 6 | 7.2 | 73 | 97 | -29 | 75 | 6 | 2 | 0 | 0 | 0.8 | 16 | 10.7 | 35 | 25 | 5 | 8 | 17 | 6.9 | | |
| MAINE
CARIBOU | 120 | 989.8 | 1017.5 | -7.8 | -16.7 | -12.2 | -3.0 | 5.0 | 2 | -27.8 | 24 | 0 | 31 | -11.7 | 70 | 66 | 4 | 19 | 13 | 0 | 823 | 533 | 0.5 | 34 | 25.5 | N | 24 | 10 | 6 | 16 | 6.8 | 47 | |
| PORTLAND | 13 | 1011.5 | 1013.9 | 8.9 | -11.7 | -6.9 | -3.4 | 15.0 | 2 | -25.6 | 22 | 0 | 30 | -11.7 | 70 | 131 | 33 | 46 | 11 | 0 | 1392 | 1016 | 3.5 | 34 | 25.5 | N | 24 | 10 | 6 | 16 | 6.8 | | |
| MARYLAND
BALTIMORE | 45 | 1011.9 | 1017.5 | 7.8 | -1.1 | 3.4 | 1.3 | 22.2 | 2 | -8.3 | 294 | 0 | 16 | -2.8 | 66 | 99 | 13 | 36 | 12 | 0 | 160 | 76 | 2.1 | 28 | 20.1 | W | 4 | 10 | 7 | 14 | 6.0 | 53 | |
| MASSACHUSETTS
HILL OBS R | 192 | 1012.9 | 1013.7 | 0.6 | -7.2 | -3.6 | -2.4 | 15.0 | 2 | -13.3 | 224 | 0 | 29 | -6.7 | 71 | 160 | 59 | 64 | 14 | 1 | 473 | 356 | 4.6 | 31 | 20.1 | NW | 4 | 5 | 6 | 20 | 7.5 | 41 | |
| WORCESTER | 301 | 976.0 | 1014.4 | -1.7 | -9.4 | -5.6 | -2.8 | 12.8 | 2 | -13.9 | 224 | 0 | 28 | -9.4 | 75 | 78 | -83 | 25 | 14 | 1 | 815 | 229 | 3.4 | 31 | 17.9 | E | 17 | 5 | 6 | 20 | 7.5 | 50 | |
| MICHIGAN
ALPENA | 210 | 989.8 | 1016.2 | -1.1 | -9.9 | -4.9 | -0.6 | 15.0 | 1 | -21.7 | 30 | 0 | 30 | -7.2 | 80 | 84 | 38 | 36 | 19 | 1 | 1176 | 483 | 0.5 | 28 | 14.3 | NE | 3 | 2 | 2 | 27 | 8.8 | 24 | |
| DETROIT | 189 | 991.5 | 1016.2 | 2.2 | -6.4 | -1.1 | 0.1 | 17.2 | 1 | -12.2 | 20 | 0 | 26 | -5.0 | 75 | 34 | -19 | 8 | 15 | 1 | 328 | 127 | 1.7 | 27 | 11.2 | 32 | 6 | 3 | 2 | 27 | 8.8 | | |
| DETROIT METRO | 193 | 991.5 | 1016.2 | 2.2 | -6.4 | -1.1 | 0.1 | 17.2 | 1 | -12.2 | 20 | 0 | 26 | -5.0 | 75 | 34 | -19 | 8 | 15 | 1 | 328 | 127 | 1.7 | 27 | 11.2 | 32 | 6 | 3 | 2 | 27 | 8.8 | 27 | |
| FLINT | 235 | 987.1 | 1015.8 | 1.1 | -6.7 | -2.9 | 0.4 | 17.9 | 1 | -15.4 | 28 | 0 | 29 | -6.4 | 77 | 41 | -14 | 14 | 13 | 0 | 249 | 177 | 1.9 | 28 | 17.0 | NW | 4 | 3 | 0 | 20 | 7.9 | | |
| GRAND RAPIDS | 239 | 986.1 | 1015.9 | 0.6 | -7.8 | -3.5 | -0.7 | 18.3 | 1 | -21.1 | 30 | 0 | 30 | -7.8 | 79 | 48 | -8 | 16 | 13 | 0 | 505 | 234 | 1.7 | 26 | 14.3 | NW | 4 | 4 | 4 | 23 | 8.1 | 26 | |
| HOUGHTON LAKE | 260 | 983.2 | 1015.3 | -1.1 | -10.0 | -5.6 | -0.9 | 15.0 | 1 | -26.8 | 30 | 0 | 30 | -7.8 | 82 | 51 | 12 | 41 | 14 | 0 | 846 | 351 | 1.1 | 24 | 16.8 | W | 23 | 3 | 5 | 24 | 7.6 | | |
| LANSING | 260 | 983.2 | 1015.3 | -1.1 | -10.0 | -5.6 | -0.9 | 15.0 | 1 | -26.8 | 30 | 0 | 30 | -7.8 | 82 | 51 | 12 | 41 | 14 | 0 | 846 | 351 | 1.1 | 24 | 16.8 | W | 23 | 3 | 5 | 24 | 7.6 | | |
| MARQUETTE U | 206 | 982.0 | 1016.2 | -1.7 | -7.2 | -4.3 | -1.4 | 15.6 | 1 | -15.6 | 26 | 0 | 28 | -6.1 | 78 | 44 | -12 | 11 | 18 | 1 | 476 | 330 | 1.6 | 26 | 13.4 | NW | 2 | 1 | 6 | 22 | 8.5 | 32 | |
| MUSKOGEE | 121 | 982.0 | 1016.2 | -1.1 | -6.1 | -2.6 | -1.1 | 15.4 | 1 | -17.2 | 26 | 0 | 28 | -6.1 | 78 | 44 | -12 | 11 | 18 | 1 | 476 | 330 | 1.6 | 26 | 13.4 | NW | 2 | 1 | 6 | 22 | 8.5 | 32 | |
| SAULT STE MARIE | 220 | 988.5 | 1016.2 | -4.4 | -11.7 | -8.2 | -2.0 | 10.0 | 1 | -21.7 | 30 | 0 | 30 | -11.1 | 78 | 55 | -3 | 13 | 17 | 2 | 615 | 381 | 1.3 | 28 | 16.1 | NW | 5 | 4 | 7 | 20 | 7.9 | 42 | |
| MINNESOTA
DULUTH | 435 | 962.4 | 1016.6 | -5.6 | -15.6 | -10.7 | -0.7 | 5.0 | 1 | -30.6 | 21 | 0 | 31 | -13.3 | 78 | 50 | 21 | 28 | 11 | 2 | 531 | 381 | 1.1 | 28 | 21.5 | E | 3 | 6 | 5 | 20 | 7.4 | 32 | |
| INTERNATIONAL FALLS | 350 | 971.2 | 1017.0 | -10.0 | -22.2 | -15.8 | -3.3 | 1.7 | 1 | -35.6 | 21 | 0 | 31 | -17.8 | 82 | 27 | -11 | 6 | 12 | 11 | 0 | 221 | 264 | 0.9 | 28 | 21.5 | E | 3 | 6 | 5 | 20 | 7.4 | |
| MINNEAPOLIS | 254 | 985.4 | 1017.5 | -2.8 | -12.2 | -7.7 | 0.1 | 11.1 | 1 | -25.0 | 24 | 0 | 31 | -12.2 | 69 | 11 | -4 | 13 | 12 | 0 | 140 | 102 | 0.8 | 28 | 21.5 | NW | 5 | 6 | 4 | 17 | 6.9 | 35 | |
| ROCHESTER | 315 | 967.2 | 1017.0 | -2.8 | -12.2 | -7.7 | 0.1 | 11.1 | 1 | -25.0 | 24 | 0 | 31 | -12.2 | 69 | 11 | -4 | 13 | 12 | 0 | 140 | 102 | 0.8 | 28 | 21.5 | NW | 5 | 6 | 4 | 17 | 6.9 | | |
| ST CLOUD | 315 | 978.0 | 1017.9 | -2.8 | -12.2 | -7.7 | 0.1 | 11.1 | 1 | -25.0 | 24 | 0 | 31 | -12.2 | 69 | 11 | -4 | 13 | 12 | 0 | 140 | 102 | 0.8 | 28 | 21.5 | NW | 5 | 6 | 4 | 17 | 6.9 | | |

METRIC UNITS

See footnotes at end of table

CLIMATOLOGICAL DATA

METRIC UNITS

| State and Station | Elevation (ground) | Pressure | | Temperature | | | | | | Precipitation | | | | Wind | | | | No. of days
(sunrise to
sunset) | Sky cover (tenths
(sunrise to sunset) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------|--------------------|--------------|-----------|-----------------|---|-----------------|---|-----------------------|---|---------------|------|---|--------|------|----------------------|-------------------|----------------|---------------------------------------|--|-------|-----------------------|----------------------|----------------|--------------------|----------------------------|-----------------|---------------------|-------|---|-----------|------|---|---|--------|----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Station
Q | Sea level | Average maximum | | Average minimum | | Departure from normal | | Highest | Date | | Lowest | Date | Max 32.2 °C or above | Min 0 °C or lower | No. of
days | | | Total | Departure from normal | Greatest in 24 hours | 25 mm. or more | With thunderstorms | Maximum depth
on ground | Resultant speed | Resultant direction | Speed | | Direction | Date | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | C | F | C | F | C | F | | C | F | | | | | | | | | | | | | | | | C | F | | | C | F | M.p.s. | K.m.p.h. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | C | F | C | F | C | F | C | F | C | F | C | F | C | F | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NORTH CAROLINA | | Mb | Mb | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C | F | C |

See footnotes at end of table

METRIC UNITS

2001.06.22

CLIMATOLOGICAL DATA

METRIC UNITS

| State and Station | Elevation (ground) | Pressure | | Temperature | | | | | | | | | | Precipitation | | | | Wind | | | | No. of days
sunrise to
sunset | Sky cover, tenths
(sunrise to sunset) | | | | | | | | | | |
|---------------------------|--------------------|--------------|-----------|-----------------|-----------------|------------------|------------------|-----------------------|------|---------|------|--------|------|----------------|-----|-------------------|---------------------------|-------|-----------------------|----------------------|--------------------|-------------------------------------|--|----------------------|-----------------|---------------------|-------|-----------|------|------------|-------------------|-------------|----------------------------|
| | | Station
O | Sea level | Average maximum | Average minimum | Average | | Departure from normal | | Highest | Date | Lowest | Date | No. of
days | | Average dew point | Average relative humidity | Total | Departure from normal | Greatest in 24 hours | No. of
days | | | Snow,
ice pellets | Resultant speed | Resultant direction | Speed | Direction | Date | Clear, 0-3 | Partly cloudy 4-7 | Cloudy 8-10 | |
| | | | | | | Max 32° or above | Min. 0° or lower | Max | Min | | | | | Max | Min | | | | | | With thunderstorms | | | | | | | | | | | | Maximum depth
on ground |
| WASHINGTON
WALLA WALLA | 289 | | | 7.2 | 35.0 | 3.4 | 38.2 | 16.7 | 7.4 | -7.2 | 22 | 0 | 19 | -5.6 | 78 | 17 | 0 | 84 | 76 | 76 | 15.4 | 154 | 154 | 154 | 154 | 154 | 154 | 154 | 154 | 154 | 154 | | |
| YAKIMA | 321 | 97°4.3 | 1014.8 | 2.2 | -6.7 | -2.2 | -1.0 | 11.1 | 7.4 | -14.4 | 26 | 0 | 31 | -5.6 | | 36 | 0 | 362 | 157 | 157 | 1.4 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | | |
| WEST INDIAN | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SAN JUAN PABLO | 4 | 1013.4 | 1015.9 | 28.3 | 23.4 | 25.7 | 1.1 | 29.4 | 31.4 | 21.1 | 30.4 | 0 | 0 | 20.4 | 74 | 152 | 13 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| SWAN ISLAND | 9 | | | 28.3 | 24.4 | 26.4 | 0.6 | 29.4 | 24 | 21.1 | 31 | 0 | 0 | -123 | 14 | 20 | -123 | 14 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| WEST VIRGINIA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| REDFEY | 763 | 927.4 | 1018.4 | 6.7 | -2.2 | 2.3 | 1.2 | 17.8 | 1 | -15.0 | 26 | 0 | 20 | -2.8 | 73 | 83 | -11 | 29 | 13 | 267 | 203 | 203 | 2.7 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | |
| CHARLESTON | 286 | 983.1 | 1018.0 | 8.3 | 1.1 | 3.6 | 0.7 | 21.7 | 4 | -12.2 | 30 | 0 | 15 | -1.7 | 72 | 37 | 14 | 37 | 13 | 277 | 254 | 254 | 2.4 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | |
| ELKINS | 524 | 941.8 | 1017.9 | 6.7 | -5.4 | 0.6 | 0.6 | 16.1 | 4.4 | -14.6 | 29 | 0 | 28 | 1.6 | 74 | 14.6 | 6.2 | 18 | 18 | 429 | 350 | 350 | 1.8 | 18 | 18 | 18 | 18 | 18 | 18 | 18 | 18 | 18 | |
| HUNTINGTON | 282 | 947.1 | 1017.9 | 8.9 | -1.1 | 3.9 | 0.3 | 22.2 | | -15.2 | 30.4 | 0 | 14 | -1.1 | 73 | 13.4 | 3.3 | 42 | 14 | 112 | 102 | 102 | 1.8 | 18 | 18 | 18 | 18 | 18 | 18 | 18 | 18 | 18 | |
| PARKEETBURG | 197 | | | 8.3 | -1.1 | 3.4 | 1.3 | 21.1 | 1 | -11.1 | 26 | 0 | 14 | | | 75 | 3 | 3 | 94 | 61 | 61 | 1.4 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | | |
| WISCONSIN | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| GREEN BAY | 206 | 989.8 | 1016.4 | -1.7 | -11.7 | -6.8 | -1.2 | 16.7 | 1 | -25.6 | 26 | 0 | 30 | -8.2 | 81 | 31 | 2 | 12 | 12 | 272 | 178 | 178 | 1.4 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | |
| LA CROSSE | 198 | 992.2 | 1017.7 | -3.2 | -11.7 | -6.0 | -1.3 | 13.4 | 1 | -25.3 | 26 | 0 | 28 | -1.0 | 70 | 36 | -4 | 9 | 9 | 343 | 154 | 154 | 1.4 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | |
| LAKE SUPERIOR | 759 | 943.7 | 1014.4 | 0.6 | -10.6 | -4.3 | -0.2 | 17.2 | 1 | -25.3 | 26 | 0 | 29 | -7.2 | 78 | 54 | 21 | 42 | 11 | 529 | 354 | 354 | 1.3 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | |
| MILWAUKEE | 205 | 993.4 | 1016.7 | 0.6 | -8.9 | -4.3 | -0.2 | 17.2 | 1 | -25.3 | 26 | 0 | 29 | -7.2 | 78 | 77 | 35 | 44 | 13 | 408 | 178 | 178 | 1.0 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | |
| WYOMING | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CASCADE | 1627 | 833.1 | 1015.5 | 1.7 | -9.4 | -3.8 | 1.2 | 12.2 | 7 | -21.7 | 23.4 | 0 | 29 | -9.4 | 66 | 23 | 10 | 12 | 7 | 302 | 152 | 152 | 1.4 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | |
| CHEYENNE | 1867 | 807.7 | 1015.6 | 4.4 | -7.8 | -1.6 | 0.2 | 13.9 | 4 | -17.8 | 24.4 | 0 | 29 | -11.1 | 50 | 8 | -4 | 4 | 5 | 124 | 61 | 61 | 1.4 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | |
| LANDER | 1696 | 824.6 | 1016.6 | 0.6 | -12.2 | -5.9 | -0.9 | 12.2 | 8 | -25.0 | 20 | 0 | 31 | -12.8 | 61 | 10 | -1 | 6 | 5 | 279 | 152 | 152 | 1.4 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | |
| SHERIDAN | 1208 | 876.4 | 1016.1 | 1.7 | -13.3 | -5.9 | -2.7 | 16.7 | | -26.1 | 20 | 0 | 31 | | | 16 | 0 | 5 | 9 | 254 | 152 | 152 | 1.4 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | |

Data from airport unless otherwise specified. U indicates Urban, R indicates Rural, sites.

Precipitation data in column headed "Greatest in 24 hours" are computed on a 24-hour basis without regard to calendar day - data may include precipitation with a measurable amount from the last day of the previous month or the first day of the following month.

Wind directions under resultant direction are in tens of degrees.

Value entered in column "Fastest Mile" is the highest observed 1-minute wind speed when the direction is in tens of degrees. These stations are not equipped with a recording anemometer from which "Fastest Mile" data can be evaluated.

B Number of days maximum 21.1°C. or above for Alaskan Stations.

Y Peak Gust.

+ And also on an earlier date or dates.

Ø Station pressures apply to elevations shown in the "Elevations - Station Pressure" table of the annual issue of this publication.

Data in this table are obtained by conversion from data in the English Units table.

Z Sun continuously below horizon.

(Base 65°F.)

DECEMBER 1970

Data from airport unless otherwise specified.
U indicates Urban, R indicates Rural, sites.

(Base 65°F)

Year 1970

Data from airport unless otherwise specified.
U indicates Urban, R indicates Rural, sites.

MONTHLY AND SEASONAL COOLING DEGREE DAYS

(Base 65°F)

Year 1979

| State and Station | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. | Total for Season | Normal Jan.-Dec. |
|----------------------|------|------|------|------|-----|------|------|------|-------|------|------|------|------------------|------------------|
| HAWAII | | | | | | | | | | | | | | |
| KAHULUI | 294 | 288 | 124 | 105 | 188 | 290 | 118 | 881 | 325 | 188 | 198 | 198 | 3116 | 3116 |
| KAHULUI | 294 | 288 | 124 | 105 | 188 | 290 | 118 | 881 | 325 | 188 | 198 | 198 | 3116 | 3116 |
| KAHULUI | 211 | 184 | 208 | 105 | 188 | 181 | 244 | 498 | 188 | 181 | 181 | 124 | 4289 | 4289 |
| ILLINOIS | | | | | | | | | | | | | | |
| CAIRO U | | | | | 114 | 316 | 453 | 281 | 188 | 181 | | | 1881 | 1881 |
| CHICAGO MIDWAY | | | | | 114 | 181 | 349 | 322 | 123 | | | | 1163 | 1163 |
| MOLINE | | | | | 119 | 198 | 341 | 256 | 105 | | | | 1111 | 1111 |
| SPRINGFIELD | | | | | 114 | 178 | 317 | 239 | 109 | | | | 1109 | 1109 |
| SPRINGFIELD | | | | | 114 | 229 | 361 | 284 | 181 | | | | 1232 | 1232 |
| INDIANA | | | | | | | | | | | | | | |
| INDIANAPOLIS | | | | | 114 | 181 | 329 | 281 | 188 | 181 | | | 1167 | 1167 |
| INDIANAPOLIS | | | | | 114 | 213 | 327 | 181 | 181 | | | | 1167 | 1167 |
| INDIANAPOLIS | | | | | 114 | 158 | 240 | 181 | 181 | | | | 1167 | 1167 |
| MISSOURI | | | | | | | | | | | | | | |
| DES MOINES | | | | | 110 | 181 | 316 | 247 | 101 | | | | 1191 | 1191 |
| SIoux CITY | | | | | 111 | 217 | 323 | 318 | 121 | | | | 1191 | 1191 |
| WATERLOO | | | | | 114 | 175 | 181 | 170 | 181 | | | | 1191 | 1191 |
| NEBRASKA | | | | | | | | | | | | | | |
| DODGE CITY | | | | | 114 | 301 | 498 | 420 | 187 | | | | 1710 | 1710 |
| TOPEKA | | | | | 114 | 355 | 376 | 103 | | | | | 1524 | 1524 |
| WICHITA | | | | | 114 | 311 | 514 | 181 | 181 | | | | 1868 | 1868 |
| NEVADA | | | | | | | | | | | | | | |
| COVINGTON | | | | | 114 | 181 | 181 | 181 | 181 | | | | 1373 | 1373 |
| LOUISVILLE | | | | | 114 | 295 | 306 | 181 | 181 | | | | 1373 | 1373 |
| LOUISIANA | | | | | | | | | | | | | | |
| BATON ROUGE | | | | | 227 | 181 | 181 | 181 | 181 | | | | 2198 | 2198 |
| NEW ORLEANS | | | | | 211 | 281 | 181 | 181 | 181 | | | | 2581 | 2581 |
| SHREVEPORT | | | | | 297 | 181 | 181 | 181 | 181 | | | | 2666 | 2666 |
| MAINE | | | | | | | | | | | | | | |
| CARIBOU | | | | | | 181 | 181 | 117 | | | | | 181 | 181 |
| PORTLAND | | | | | | 181 | 181 | 181 | | | | | 181 | 181 |
| MARYLAND | | | | | | | | | | | | | | |
| BALTIMORE | | | | | 114 | 181 | 181 | 181 | 181 | | | | 181 | 181 |
| MASSACHUSETTS | | | | | | | | | | | | | | |
| BLUE HILL OBS R | | | | | 114 | 181 | 227 | 204 | 181 | | | | 181 | 181 |
| BOSTON | | | | | 114 | 181 | 227 | 204 | 181 | | | | 181 | 181 |
| MICHIGAN | | | | | | | | | | | | | | |
| DETROIT | | | | | 114 | 181 | 181 | 181 | 181 | | | | 181 | 181 |
| DETROIT METRO. | | | | | 114 | 181 | 181 | 181 | 181 | | | | 181 | 181 |
| FLINT | | | | | 114 | 181 | 181 | 181 | 181 | | | | 181 | 181 |
| GRAND RAPIDS | | | | | 114 | 181 | 181 | 181 | 181 | | | | 181 | 181 |
| HOUGHTON LAKE | | | | | 114 | 181 | 181 | 181 | 181 | | | | 181 | 181 |
| SAULT STE MARIE | | | | | 114 | 181 | 181 | 181 | 181 | | | | 181 | 181 |
| MINNESOTA | | | | | | | | | | | | | | |
| DULUTH | | | | | 114 | 181 | 181 | 181 | 181 | | | | 181 | 181 |
| INTERNATIONAL FALL | | | | | 114 | 181 | 181 | 181 | 181 | | | | 181 | 181 |
| MINNEAPOLIS | | | | | 114 | 181 | 181 | 181 | 181 | | | | 181 | 181 |
| ROCHESTER | | | | | 114 | 181 | 181 | 181 | 181 | | | | 181 | 181 |
| ST CLOUD | | | | | 114 | 181 | 181 | 181 | 181 | | | | 181 | 181 |
| MISSISSIPPI | | | | | | | | | | | | | | |
| JACKSON | | | | | 173 | 274 | 181 | 181 | 181 | | | | 2474 | 2474 |
| MERIDIAN | | | | | 173 | 274 | 181 | 181 | 181 | | | | 2277 | 2277 |
| MISSOURI | | | | | | | | | | | | | | |
| COLUMBIA REGIONAL | | | | | 128 | 217 | 181 | 181 | 181 | | | | 1288 | 1288 |
| KANSAS CITY | | | | | 128 | 217 | 181 | 181 | 181 | | | | 1288 | 1288 |
| ST JOSEPH | | | | | 128 | 217 | 181 | 181 | 181 | | | | 1288 | 1288 |
| ST LOUIS | | | | | 128 | 217 | 181 | 181 | 181 | | | | 1288 | 1288 |
| SPRINGFIELD | | | | | 128 | 217 | 181 | 181 | 181 | | | | 1288 | 1288 |
| MONTANA | | | | | | | | | | | | | | |
| BILLINGS | | | | | 115 | 261 | 181 | 181 | 181 | | | | 722 | 722 |
| GLASGOW | | | | | 115 | 261 | 181 | 181 | 181 | | | | 722 | 722 |
| GREAT FALLS | | | | | 115 | 261 | 181 | 181 | 181 | | | | 722 | 722 |
| HAVRE | | | | | 115 | 261 | 181 | 181 | 181 | | | | 722 | 722 |
| HELENA | | | | | 115 | 261 | 181 | 181 | 181 | | | | 722 | 722 |
| KALISPELL | | | | | 115 | 261 | 181 | 181 | 181 | | | | 722 | 722 |
| MILES CITY | | | | | 115 | 261 | 181 | 181 | 181 | | | | 722 | 722 |

Data from airport unless otherwise specified.
U indicates Urban, R indicates Rural, sites.

MONTHLY AND SEASONAL COOLING DEGREE DAYS

(Base 65°F)

Year 1970

| State and Station | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. | Total for Season | Normals Jan.-Dec. |
|-----------------------|------|------|------|------|-----|------|------|------|-------|------|------|------|------------------|-------------------|
| NEBRASKA | | | | | | | | | | | | | | |
| BEAUMONT | 0 | 0 | 0 | 12 | 128 | 279 | 426 | 401 | 112 | 19 | 0 | 0 | 1397 | |
| BEAUMONT | 0 | 0 | 0 | 18 | 172 | 309 | 445 | 410 | 146 | 26 | 0 | 0 | 1546 | |
| BEAUMONT | 0 | 0 | 0 | 9 | 107 | 244 | 364 | 311 | 115 | 10 | 0 | 0 | 1185 | |
| NORFOLK | 0 | 0 | 0 | 4 | 48 | 155 | 300 | 461 | 0 | 0 | 0 | 0 | 964 | |
| NORTH PLATTE | 0 | 0 | 0 | 32 | 172 | 286 | 386 | 361 | 148 | 20 | 0 | 0 | 1405 | |
| OMAHA | 0 | 0 | 0 | 0 | 7 | 99 | 254 | 263 | 17 | 0 | 0 | 0 | 660 | |
| SCOTTSBLUFF | 0 | 0 | 0 | 0 | 49 | 181 | 341 | 315 | 108 | 0 | 0 | 0 | 994 | |
| VALENTINE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| NEVADA | | | | | | | | | | | | | | |
| ELKO | 0 | 0 | 0 | 0 | 0 | 48 | 166 | 162 | 0 | 0 | 0 | 0 | 378 | |
| ELY | 0 | 0 | 0 | 0 | 0 | 31 | 89 | 110 | 0 | 0 | 0 | 0 | 230 | |
| RENO | 0 | 0 | 0 | 21 | 334 | 540 | 818 | 768 | 371 | 81 | 1 | 0 | 2934 | |
| RENO | 0 | 0 | 0 | 0 | 6 | 100 | 256 | 210 | 0 | 0 | 0 | 0 | 579 | |
| RENO | 0 | 0 | 0 | 0 | 2 | 124 | 279 | 191 | 0 | 0 | 0 | 0 | 596 | |
| NEW HAMPSHIRE | | | | | | | | | | | | | | |
| CONCORD | 0 | 0 | 0 | 1 | 27 | 58 | 194 | 145 | 56 | 0 | 0 | 0 | 489 | |
| MANCHESTER | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| NEW JERSEY | | | | | | | | | | | | | | |
| ATLANTIC CITY | 0 | 0 | 0 | 0 | 63 | 136 | 279 | 285 | 187 | 20 | 0 | 0 | 970 | |
| ATLANTIC CITY U | 0 | 0 | 0 | 0 | 37 | 138 | 240 | 315 | 141 | 11 | 0 | 0 | 882 | |
| NEWARK | 0 | 0 | 0 | 4 | 94 | 187 | 384 | 387 | 201 | 33 | 0 | 0 | 1290 | |
| TRENTON U | 0 | 0 | 0 | 2 | 83 | 174 | 359 | 356 | 201 | 27 | 0 | 0 | 1202 | |
| NEW MEXICO | | | | | | | | | | | | | | |
| ALBUQUERQUE | 0 | 0 | 0 | 0 | 106 | 246 | 461 | 405 | 141 | 4 | 0 | 0 | 1362 | |
| CLAYTON | 0 | 0 | 0 | 0 | 36 | 162 | 297 | 270 | 95 | 3 | 0 | 0 | 863 | |
| ROSWELL | 0 | 0 | 0 | 9 | 146 | 303 | 482 | 420 | 244 | 16 | 0 | 0 | 1620 | |
| NEW YORK | | | | | | | | | | | | | | |
| ALBANY | 0 | 0 | 0 | 12 | 36 | 107 | 225 | 160 | 83 | 7 | 0 | 0 | 630 | |
| BINGHAMTON | 0 | 0 | 0 | 7 | 22 | 66 | 117 | 109 | 52 | 0 | 0 | 0 | 373 | |
| BUFFALO | 0 | 0 | 0 | 16 | 21 | 108 | 197 | 173 | 72 | 12 | 0 | 0 | 599 | |
| NEW YORK U | 0 | 0 | 0 | 8 | 86 | 190 | 385 | 398 | 207 | 30 | 0 | 0 | 1304 | |
| NEW YORK KENNEDY | 0 | 0 | 0 | 0 | 42 | 168 | 378 | 389 | 182 | 17 | 0 | 0 | 1176 | |
| NEW YORK LA GUARDIA | 0 | 0 | 0 | 2 | 54 | 180 | 382 | 395 | 196 | 27 | 0 | 0 | 1236 | |
| ROCHESTER | 0 | 0 | 0 | 16 | 47 | 148 | 235 | 176 | 69 | 13 | 0 | 0 | 704 | |
| SYRACUSE | 0 | 0 | 0 | 8 | 22 | 74 | 160 | 127 | 51 | 3 | 0 | 0 | 465 | |
| NORTH CAROLINA | | | | | | | | | | | | | | |
| ASHEVILLE | 0 | 0 | 0 | 22 | 62 | 159 | 296 | 259 | 206 | 17 | 0 | 0 | 1011 | |
| CAPE HATTERAS R | 0 | 0 | 0 | 7 | 127 | 314 | 393 | 422 | 313 | 122 | 0 | 0 | 1698 | |
| CHARLOTTE | 0 | 0 | 0 | 47 | 148 | 289 | 453 | 438 | 346 | 71 | 0 | 0 | 1792 | |
| GREENSBORO | 0 | 0 | 0 | 45 | 151 | 338 | 466 | 335 | 264 | 32 | 0 | 0 | 1621 | |
| RALEIGH | 0 | 0 | 0 | 41 | 113 | 236 | 360 | 327 | 278 | 38 | 0 | 0 | 1383 | |
| WILMINGTON | 0 | 0 | 0 | 90 | 205 | 343 | 482 | 463 | 370 | 125 | 3 | 3 | 2084 | |
| NORTH DAKOTA | | | | | | | | | | | | | | |
| BISMARCK | 0 | 0 | 0 | 0 | 6 | 109 | 199 | 182 | 60 | 0 | 0 | 0 | 666 | |
| FARGO | 0 | 0 | 0 | 0 | 2 | 146 | 233 | 180 | 95 | 3 | 0 | 0 | 659 | |
| WILLISTON | 0 | 0 | 0 | 0 | 3 | 123 | 244 | 176 | 34 | 0 | 0 | 0 | 580 | |
| OHIO | | | | | | | | | | | | | | |
| AKRON | 0 | 0 | 0 | 17 | 79 | 152 | 231 | 210 | 146 | 18 | 0 | 0 | 853 | |
| CINCINNATI | 0 | 0 | 0 | 32 | 158 | 225 | 320 | 304 | 263 | 13 | 0 | 0 | 1315 | |
| CLEVELAND | 0 | 0 | 0 | 22 | 89 | 189 | 230 | 171 | 121 | 10 | 0 | 0 | 832 | |
| COLUMBUS | 0 | 0 | 0 | 22 | 125 | 166 | 281 | 237 | 179 | 13 | 0 | 0 | 1023 | |
| DAYTON | 0 | 0 | 0 | 22 | 125 | 234 | 322 | 275 | 185 | 5 | 0 | 0 | 1168 | |
| MANSFIELD | 0 | 0 | 0 | 17 | 71 | 181 | 284 | 271 | 184 | 16 | 0 | 0 | 1024 | |
| TOLEDO | 0 | 0 | 0 | 19 | 62 | 142 | 210 | 159 | 107 | 10 | 0 | 0 | 709 | |
| YOUNGSTOWN | 0 | 0 | 0 | 16 | 71 | 110 | 182 | 148 | 112 | 4 | 0 | 0 | 643 | |
| OKLAHOMA | | | | | | | | | | | | | | |
| OKLAHOMA CITY | 0 | 0 | 1 | 47 | 169 | 357 | 536 | 582 | 328 | 38 | 0 | 0 | 2058 | |
| TULSA | 0 | 0 | 0 | 60 | 209 | 382 | 555 | 619 | 307 | 39 | 0 | 0 | 2161 | |
| OREGON | | | | | | | | | | | | | | |
| ASTORIA | 0 | 0 | 0 | 0 | 0 | 7 | 0 | 0 | 1 | 0 | 0 | 0 | 8 | |
| ASTORIA | 0 | 0 | 0 | 0 | 0 | 105 | 171 | 151 | 0 | 0 | 0 | 0 | 427 | |
| EUGENE | 0 | 0 | 0 | 0 | 4 | 93 | 173 | 99 | 1 | 0 | 0 | 0 | 370 | |
| MEADVIEW | 0 | 0 | 0 | 0 | 0 | 81 | 109 | 82 | 0 | 3 | 0 | 0 | 275 | |
| MEDFORD | 0 | 0 | 0 | 0 | 15 | 185 | 343 | 278 | 28 | 3 | 0 | 0 | 852 | |
| PENDLETON | 0 | 0 | 0 | 11 | 201 | 313 | 243 | 243 | 4 | 0 | 0 | 0 | 772 | |
| PORTLAND | 0 | 0 | 0 | 0 | 8 | 106 | 140 | 120 | 8 | 2 | 0 | 0 | 394 | |
| SALEM | 0 | 0 | 0 | 0 | 2 | 82 | 106 | 66 | 0 | 1 | 0 | 0 | 257 | |
| SEXTON SUMMIT R | 0 | 0 | 0 | 0 | 10 | 110 | 98 | 80 | 33 | 26 | 0 | 0 | 367 | |
| PACIFIC AREA | | | | | | | | | | | | | | |
| ALAMOGADO R | 474 | 462 | 431 | 425 | 465 | 463 | 437 | 441 | 428 | 460 | 445 | 437 | 5167 | |
| JOHNSTON | 424 | 365 | 393 | 391 | 468 | 471 | 488 | 511 | 483 | 484 | 407 | 378 | 5271 | |
| KOROR R | 419 | 481 | 416 | 436 | 466 | 426 | 537 | 534 | 427 | 438 | 527 | 423 | 6330 | |
| KWAJALEIN | 467 | 518 | 480 | 532 | 552 | 532 | 534 | 530 | 406 | 497 | 510 | 536 | 6404 | |
| MAJURO | 412 | 483 | 436 | 421 | 518 | 474 | 507 | 497 | 491 | 489 | 491 | 488 | 6007 | |
| PAGO PAGO | 400 | 474 | 474 | 486 | 508 | 466 | 498 | 423 | 408 | 467 | 441 | 430 | 5525 | |
| PONAPE R | 494 | 480 | 434 | 478 | 521 | 477 | 472 | 476 | 442 | 452 | 455 | 513 | 5824 | |
| TRUK MOEN ISLAND | 516 | 478 | 461 | 528 | 527 | 499 | 411 | 425 | 409 | 506 | 517 | 532 | 6229 | |
| WAKE | 400 | 478 | 497 | 535 | 562 | 586 | 560 | 554 | 461 | 565 | 500 | 452 | 6110 | |
| WAKE | 400 | 454 | 421 | 519 | 526 | 512 | 478 | 492 | 485 | 507 | 499 | 510 | 6049 | |
| PENNSYLVANIA | | | | | | | | | | | | | | |
| ALLENTOWN | 0 | 0 | 0 | 2 | 44 | 116 | 278 | 249 | 141 | 6 | 0 | 0 | 836 | |
| ALLENTOWN | 0 | 0 | 0 | 13 | 28 | 76 | 145 | 119 | 62 | 3 | 0 | 0 | 446 | |
| HARRISBURG | 0 | 0 | 0 | 7 | 102 | 191 | 353 | 333 | 246 | 24 | 0 | 0 | 1256 | |
| PHILADELPHIA | 0 | 0 | 0 | 3 | 100 | 204 | 376 | 367 | 247 | 46 | 0 | 0 | 1343 | |
| PITTSBURGH | 0 | 0 | 0 | 21 | 100 | 133 | 215 | 213 | 162 | 11 | 0 | 0 | 855 | |
| SCRANTON | 0 | 0 | 0 | 10 | 40 | 81 | 189 | 159 | 92 | 2 | 0 | 0 | 573 | |
| WILLIAMSPORT | 0 | 0 | 0 | 8 | 48 | 109 | 262 | 237 | 136 | 12 | 0 | 0 | 822 | |
| RHODE ISLAND | | | | | | | | | | | | | | |
| BLOCK ISLAND | 0 | 0 | 0 | 0 | 0 | 12 | 186 | 208 | 55 | 5 | 0 | 0 | 466 | |
| PROVIDENCE | 0 | 0 | 0 | 0 | 13 | 86 | 189 | 237 | 91 | 14 | 0 | 0 | 730 | |

Data from airport unless otherwise specified.
U indicates Urban, R indicates Rural, sites.

MONTHLY AND SEASONAL COOLING DEGREE DAYS

(Base 65°F)

Year 1970

| State and Station | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. | Total for Season | Normals Jan.-Dec. |
|----------------------|------|------|------|------|-----|------|------|------|-------|------|------|------|------------------|-------------------|
| ALABAMA | | | | | | | | | | | | | | |
| CHARLESTON | | | 3 | 126 | 253 | 410 | 552 | 487 | 390 | 88 | | | 2355 | |
| CHARLESTON U | | 0 | 3 | 138 | 284 | 437 | 558 | 474 | 439 | 180 | 6 | | 2455 | |
| MOBILE | | | 12 | 158 | 297 | 420 | 576 | 513 | 421 | 82 | | | 2656 | |
| MOBILE RPTNAC | 0 | 0 | 0 | 89 | 154 | 313 | 454 | 378 | 310 | 67 | | | 1735 | |
| ARIZONA | | | | | | | | | | | | | | |
| PHOENIX | | | | | 14 | 141 | 255 | 235 | 127 | 3 | | | 773 | |
| HURON | | | | | | | 248 | 359 | 58 | 4 | | | 713 | |
| SILOU FALLS | | | | | 54 | 172 | 38 | 241 | 108 | | | | 863 | |
| ARIZONA | | | | | | | | | | | | | | |
| BRISTOL | | 0 | | 28 | | | 373 | 314 | 270 | 45 | | | 1356 | |
| KNOWVILLE | | | | 57 | | 313 | 461 | 412 | 337 | 44 | | | 1356 | |
| MURPHY | | | | 104 | 162 | 258 | 427 | 384 | 326 | 46 | | | 1356 | |
| NASHVILLE | | | | 56 | 251 | 375 | 463 | 509 | 400 | 51 | 6 | | 1732 | |
| LAKESIDE | | | | 37 | 140 | 219 | 371 | 447 | 374 | 40 | 1 | | 1732 | |
| TEXAS | | | | | | | | | | | | | | |
| ABILENE | | | 5 | | 202 | | 607 | 560 | 411 | 106 | 6 | | 2467 | |
| AMARILLO | | | 10 | 14 | | 327 | 455 | 446 | 332 | 24 | 0 | | 1713 | |
| BROWNSVILLE | | | | 165 | 235 | 451 | 589 | 490 | 435 | 194 | 27 | 43 | 2744 | |
| CORPUS CHRISTI | 20 | 8 | 11 | 287 | 364 | 597 | 648 | 647 | 485 | 330 | 128 | | 3886 | |
| DALLAS | 8 | | 11 | 194 | 284 | 552 | 689 | 647 | 485 | 255 | 80 | | 3886 | |
| DEL RIO | | | | | | | 642 | 637 | 443 | 135 | 26 | | 2868 | |
| EL PASO | | | | 57 | | 448 | 559 | 514 | 421 | 19 | | | 2183 | |
| GALVESTON | 0 | | 3 | 108 | | 433 | 595 | 653 | 409 | 115 | | 22 | 2695 | |
| HOUSTON | 18 | 3 | | 188 | | 488 | 557 | 583 | 456 | 181 | 36 | | 2611 | |
| LUBBOCK | 0 | 0 | | 11 | | 348 | 498 | 440 | 340 | 32 | 2 | | 1713 | |
| MIDLAND | 8 | | | 37 | | 389 | 542 | 467 | 301 | 49 | | | 2183 | |
| PORT ARTHUR | 13 | 2 | 23 | 225 | 300 | 517 | 644 | 518 | 394 | 40 | | 85 | 3163 | |
| SAN ANGELO | 6 | 1 | | 135 | 248 | 402 | 575 | 639 | 432 | 101 | 10 | | 2585 | |
| SAN ANTONIO | 3 | | | 208 | 259 | 448 | 592 | 641 | 465 | 163 | 40 | 67 | 2695 | |
| VICTORIA | 19 | 46 | 23 | 234 | 269 | 458 | 561 | 611 | 452 | 184 | 55 | 84 | 2962 | |
| WACO | 4 | | | 155 | 260 | 483 | 620 | 723 | 447 | 144 | 20 | | 2892 | |
| WICHITA FALLS | 0 | | 4 | 85 | 233 | 452 | 622 | 627 | 365 | 76 | | 0 | 2467 | |
| UTAH | | | | | | | | | | | | | | |
| MILFORD | | | | | | 14 | 322 | 347 | 46 | | | | 846 | |
| SALT LAKE CITY | | | | | 32 | 190 | 365 | 398 | 46 | | | | 999 | |
| WENDOVER | | | | | 41 | 209 | 419 | 444 | 43 | | | | 1163 | |
| VERMONT | | | | | | | | | | | | | | |
| BURLINGTON | | | | | 11 | | 189 | 160 | 36 | | | | 47 | |
| VIRGINIA | | | | | | | | | | | | | | |
| LYNCHBURG | | 0 | | 17 | 116 | 40 | 338 | | 175 | 37 | | 0 | 1000 | |
| NORFOLK | 1 | | | 19 | 140 | 321 | 374 | 412 | 311 | 60 | | | 1620 | |
| RICHMOND | | | | 16 | 185 | 328 | 418 | 410 | 311 | 67 | | | 1620 | |
| WALLOPS ISLAND | | | | 22 | 128 | 246 | 341 | 291 | 261 | 35 | | | 1134 | |
| WASHINGTON | | | | | | | | | | | | | | |
| OLYMPIA | | | | | | 29 | 44 | 14 | | 0 | | | 80 | |
| QUILLAYUTE | | | | | | | 8 | 1 | | | | | 16 | |
| SEATTLE TACOMA | | | | | 1 | 60 | 58 | 37 | 6 | | | | 161 | |
| SPOKANE | | | | | 3 | 143 | 253 | 171 | | 0 | | | 576 | |
| STAMPEDE PASS R | 0 | | | | | | 17 | 21 | | | | | 47 | |
| WALLA WALLA U | | | | 0 | 23 | 254 | 348 | 343 | 25 | 8 | | | 1041 | |
| YAKIMA | | | | | 6 | 174 | 252 | 168 | 3 | 0 | | | 603 | |
| WEST INDIES | | | | | | | | | | | | | | |
| SAN JUAN P.R. | 142 | 324 | 409 | 488 | 639 | 506 | 548 | 44 | 122 | 498 | 461 | 418 | 3440 | |
| SWAN ISLAND | 398 | 340 | 465 | 522 | 514 | 611 | 511 | 528 | 478 | 511 | 409 | 462 | 5678 | |
| WEST VIRGINIA | | | | | | | | | | | | | | |
| BECKLEY | | | | 16 | 53 | 88 | 165 | 142 | 131 | 11 | | | 606 | |
| CHARLESTON | | | | 40 | 147 | 251 | 310 | 273 | 197 | 18 | | | 1146 | |
| ELKINS | | | | | | 52 | 121 | 86 | 75 | 1 | | | 367 | |
| HUNTINGTON | | | | 21 | 108 | 201 | 275 | 268 | 265 | 25 | | | 1185 | |
| PARKERSBURG U | | | | 32 | 145 | 219 | 305 | 290 | 246 | 21 | | | 1262 | |
| WISCONSIN | | | | | | | | | | | | | | |
| GREEN BAY | | | | 10 | 26 | 114 | 231 | 150 | 50 | 6 | | | 584 | |
| LA CROSSE | | | | 29 | 75 | 208 | 270 | 178 | 71 | 5 | | | 841 | |
| MADISON | | | | 12 | 47 | 175 | 210 | 171 | 53 | 4 | | | 584 | |
| MILWAUKEE | | | | 4 | 29 | 119 | 227 | 227 | 68 | 4 | | | 713 | |
| WYOMING | | | | | | | | | | | | | | |
| CASPER | | | | | | 77 | 200 | 234 | 24 | 0 | | | 535 | |
| HELENA | | | | | 2 | 52 | 149 | 189 | 11 | | | | 403 | |
| LANDER | | | | | 1 | 81 | 196 | 247 | 14 | | | | 539 | |
| SHERIDAN | | | | | | 55 | 136 | 174 | 16 | | | | 386 | |

Data from airport unless otherwise specified.
U indicates Urban, R indicates Rural sites.

STORM SUMMARY

DECEMBER 1970

| STATE | TORNADOES | | | | | HAILSTORMS | | | | WINDSTORMS | | | | LIGHTNING | | | | # HEAVY SNOWSTORMS AND BLIZZARDS | | | | # ICE STORMS | | | | ALL OTHER | | | | |
|--------------------|-----------|------|--------|----------|--------|------------|----------|------------|-------|------------|----------|------------|-------|-----------|----------|------------|-------|----------------------------------|----------|------------|-------|--------------|----------|------------|-------|-----------|----------|------------|-------|---|
| | NUMBER | DAYS | DEATHS | INJURIES | DAMAGE | DEATHS | INJURIES | DAMAGE | | DEATHS | INJURIES | DAMAGE | | DEATHS | INJURIES | DAMAGE | | DEATHS | INJURIES | DAMAGE | | DEATHS | INJURIES | DAMAGE | | DEATHS | INJURIES | DAMAGE | | |
| | | | | | | | | PROP. ERTY | CROPS | | | PROP. ERTY | CROPS | | | PROP. ERTY | CROPS | | | PROP. ERTY | CROPS | | | PROP. ERTY | CROPS | | | PROP. ERTY | CROPS | |
| Alabama | | | | | | | | | | 0 | 0 | 4 | 0 | | | | | | | | | | | | | | | | | |
| Alaska * | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Arizona * | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Arkansas * | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| California | | | | | | | | | | | | | | | | | 0 | 0 | 4 | 0 | | | | | | 0 | 0 | 4 | 0 | |
| Colorado * | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Connecticut | | | | | | | | | | 0 | 0 | 4 | 0 | | | | 0 | 0 | 6 | 0 | 0 | 0 | 5 | 0 | | | | | | |
| Delaware | | | | | | | | | | 0 | 0 | 3 | 0 | | | | | | | | | | | | | | | | | |
| Florida | | | | | | | | | | 0 | 0 | 4 | 0 | | | | | | | | | | | | | | | | | |
| Georgia | 2 | 2 | 0 | 5 | 4 | | | | | 0 | 0 | 4 | 0 | | | | | | | | | | | | | | | | | |
| Hawaii | | | | | | | | | | 0 | 2 | 5 | 4 | | | | | | | | | | | | | | | | | |
| Idaho | | | | | | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | | 0 | 0 | 4 | 0 | 2 | 0 | 0 | 0 | |
| Illinois * | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Indiana * | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Iowa | | | | | | | | | | 0 | 1 | 4 | 0 | 0 | 0 | 4 | 0 | | | | | 0 | 10 | 6 | 0 | | | | | |
| Kansas | | | | | | | | | | | | | | | | | 0 | 0 | 4 | 0 | | | | | | 0 | 0 | 0 | 0 | |
| Kentucky * | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Louisiana | 1 | 1 | 0 | 0 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Maine | | | | | | | | | | 0 | 0 | 5 | 0 | | | | 0 | 0 | 5 | 0 | 0 | 0 | 3 | 0 | | | | | | |
| Maryland | | | | | | | | | | 2 | 2 | 5 | 0 | | | | | | | | 0 | 0 | 4 | 0 | | | | | | |
| Massachusetts | | | | | | | | | | 0 | 0 | 5 | 0 | | | | 0 | 0 | 5 | 0 | 0 | 0 | 4 | 0 | | 0 | 0 | 4 | 0 | |
| Michigan | | | | | | | | | | 0 | 0 | 7 | 0 | | | | 0 | 0 | 4 | 0 | | | | | | 0 | 0 | 4 | 0 | |
| Minnesota | | | | | | | | | | | | | | | | | 0 | 0 | 4 | 0 | | | | | | | | | | |
| Mississippi | 2 | 2 | 0 | 0 | 4 | | | | | 0 | 0 | 0 | 0 | | | | | | | | | | | | | | 0 | 0 | 0 | |
| Missouri * | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Montana | | | | | | | | | | 0 | 0 | 4 | 0 | | | | | | | | | | | | | | | | | |
| Nebraska | | | | | | | | | | 0 | 0 | 5 | 6 | | | | 0 | 0 | 5 | 0 | 0 | 0 | 5 | 0 | | | | | | |
| Nevada | | | | | | | | | | 2 | 0 | 0 | 0 | | | | 0 | 5 | 0 | 0 | | | | | | | | | | |
| New Hampshire | | | | | | | | | | 0 | 0 | 5 | 0 | | | | 0 | 0 | 5 | 0 | 0 | 0 | 2 | 0 | | | | | | |
| New Jersey | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| New Mexico | | | | | | | | | | 0 | 1 | 4 | 0 | | | | | | | | | | | | | | | | | |
| New York | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| North Carolina | | | | | | | | | | 0 | 1 | 5 | 0 | | | | | | | | | | | | | | 0 | 0 | 5 | 0 |
| North Dakota * | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ohio | | | | | | | | | | 0 | 0 | 5 | | | | | | | | | | 0 | 2 | 0 | | | | | | |
| Oklahoma * | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Oregon | | | | | | | | | | 2 | 11 | 5 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 3 | 0 | | | | | 1 | 0 | 5 | 0 | |
| Pacific Area * | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pennsylvania | | | | | | 0 | 0 | 4 | 0 | 0 | 1 | 4 | 0 | 0 | 0 | 3 | 0 | | | | 0 | 10 | 5 | 4 | | 0 | 0 | 4 | 0 | |
| Puerto Rico | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Rhode Island | | | | | | | | | | 0 | 0 | 4 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 5 | 0 | 0 | 0 | 4 | 0 | | | | | |
| South Carolina | | | | | | | | | | 0 | 0 | 6 | 0 | | | | | | | | | | | | | | | | | |
| South Dakota * | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tennessee | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Texas | 3 | 1 | 0 | 0 | 4 | | | | | 0 | 0 | 5 | 0 | | | | | | | | | | | | | | | | | |
| Utah | 1 | 1 | 0 | 0 | 0 | | | | | | | | | | | | 2 | 0 | 5 | 0 | | | | | | | | | | |
| Vermont | | | | | | | | | | 0 | 0 | 5 | 0 | | | | 0 | 0 | 5 | 0 | | | | | | | | | | |
| U. S. Virgin Is. * | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Virginia | | | | | | | | | | 0 | 0 | 4 | 0 | | | | 0 | 0 | 3 | 0 | 0 | 0 | 3 | 0 | | | | | | |
| Washington * | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| West Virginia | | | | | | | | | | 0 | 0 | 3 | 0 | | | | | | | | | | | | | | 1 | 0 | 3 | 0 |
| Wisconsin | 5 | 2 | 0 | 0 | 6 | | | | | 0 | 0 | 5 | 0 | | | | 0 | 0 | 5 | 0 | | | | | | | | | | |
| Wyoming * | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

C Crop damage

° Includes crop damage

+ Includes heavy sleet storm.

Freezing drizzle and freezing rain, commonly known as glaze.

Ø For breakdown of "All Others", and for detailed listing of other storms, see the Environmental Data Service, NOAA, monthly publication STORM DATA.

† Storm damages are placed in categories varying from 1 to 9 as follows:

- 1 Less than \$50
- 2 \$50 to \$500
- 3 \$500 to \$5,000
- 4 \$5,000 to \$50,000
- 5 \$50,000 to \$500,000
- 6 \$500,000 to \$5,000,000
- 7 \$5,000,000 to \$50,000,000
- 8 \$50,000,000 to \$500,000,000
- 9 \$500,000,000 to \$5,000,000,000.

GENERAL SUMMARY OF RIVER AND FLOOD CONDITIONS

DECEMBER 1970

Elmer R. Nelson, Office of Hydrology

Heavy rains on Dec. 9-10, caused flooding along the north coast of Puerto Rico as far west as Arecibo. Flooding was the most severe in the community of Vega Baha where low lying areas were inundated by the Rio Cibuco. About 300 families were evacuated due to the high water.

In Alaska, snowfall for the season reached a record high of 112 inches in the Fairbanks area with an accumulation of 36 inches on the ground at the end of December.

The most significant flooding in the continental United States occurred in the Pacific Slope Drainage. The Corps of Engineers estimated the damages in the Willamette Basin in Oregon and the Russian Basin in California at over \$700,000. The Chehalis River at Centralia, Wash., exceeded flood stage twice during December.

ST. LAWRENCE DRAINAGE

Lake Ontario.--Snowmelt in the lower Canaseraga Creek Valley in New York caused flooding on route 258 below Dansville on the morning of the 20th. The river crested at a stage of 8 ft., 3 ft. below flood stage, at Groveland, N. Y. However, the water flows from the main channel through a drainage ditch on the flatland at a stage of about 7 ft. No damage resulted except for the loss of the use of state route 258.

ATLANTIC SLOPE DRAINAGE

Reservoir storage in the 13 principal reservoirs of New Jersey increased by 1.2 billion gallons to about 84 percent of total capacity during December. Jersey City's reservoirs were filled to capacity and Newark's system to 97 percent of capacity. New York City's three reservoirs on the Upper Delaware River increased storage by 6.2 billion gallons or 4 percent of available supply.

Heavy showers on the 23d over central Maryland caused some flooding of small streams east of Cumberland, Md. No damages were reported.

Minor flooding occurred along the Congaree River in the lowlands below Columbia, S. C., on the 16-17th.

MISSISSIPPI SYSTEM

Upper Mississippi Basin.--Navigation for the season was discontinued along the Mississippi River at St. Paul-Minneapolis, Minn., on Dec. 3; at La Crosse, Wis., on Dec. 8., and at Guttenberg, Iowa, on Dec. 11.

Missouri Basin.--Minor fluctuations were observed on the Yellowstone River below Big Timber, Mont., due to ice accumulation. An ice jam in the Reed Point area between Big Timber and Columbus, Mont., caused minor flooding in the fields along the river. The river channel was mostly clear of ice at the end of the month.

Practically all of the streams in South Dakota and northern Nebraska were frozen over at the end of the month. The Missouri River in the reach between Yankton, S. Dak., and Sioux City, Iowa, had shore and floating ice covering 80 to 90 percent of the surface with some bridging.

Snow depths at the end of December ranged from 3 to 8 inches in northwest Iowa, South Dakota and northeastern Wyoming. In northern Nebraska, the snow depths ranged from 1 to 4 inches and in southeastern Minnesota from 5 to 11 inches. Snow depths ranged up to 12 inches in South Dakota and northeast Wyoming.

Minor flooding occurred on the Platte River at Grand Island, Nebr., on the 14th-23d. The flooding was due to an ice jam in the vicinity of the gage. Some lowland farm areas and low sections of farm areas and low sections of highway 281 were affected by the high water. No damage was reported.

Ohio Basin.--Two to 4 inches of rain over the headwaters of the Monongahela Basin on the 21st-23d caused minor flooding on the Tygart, West Fork and Cheat Rivers in West Virginia and on the Monongahela River in Pennsylvania. Considerable damage was reported to public roads in Tucker County, W. Va., from local drainage overflows. Only Philippi, W. Va., on the Tygart River reported any actual damage from this flood where the crest was nearly 3 ft. above flood stage.

Light to moderate rain on the 21st and heavy rain on the 22d caused rapid rises to bankfull stages at several points along the lower Ohio River and on the Green River at Woodbury, Ky. The flooding was minor and was confined mostly to farm land.

Two inches of rain in the Muscatatuck Basin on the 21st to the 23d caused nearly 3 ft. of flooding at Austin, Ind. The flooding was minor and no damages were reported.

White Basin.--Flooding in the White Basin was minor during December. The Cache River was above flood stage in the beginning of the month and receded within its banks on the 2d. Rain averaging 1.5 inches over the Cache Basin on the 16th caused a rise to above flood stage at Patterson, Ark., on the 19th. It crested 2 ft. above flood stage on the 24th and 28th. It continued above flood stage through the remainder of the month.

The main stem of the White River rose slowly at Claredon, Ark., during the last half of the month cresting at flood stage on the 31st.

PACIFIC SLOPE DRAINAGE

Sacramento Basin.--Minor flooding occurred on the Sacramento River at Bend Bridge, Calif., on the 4th and at Woodson Bridge, Calif., on the 4th and 5th. The crests on the 4th ranged from 1.5 to 3 ft. above flood stage. Damage, if any, was very minor.

Two rises during the first 10 days of the month exceeded warning stages at several points during December.

Overflow into the bypass system started early in November and continued over most weirs through the end of the month. Some flooding of lower tracts in the Yolo Bypass occurred during the first rise of the month.

San Francisco Bay and Central Coastal Basins.--Heavy rain (7 inches) during the first four days of December caused rapid rises on the Napa and Russian Rivers to above flood stage on the 3d and 4th. The crest at St. Helena, Calif., on the Napa River was 3 ft. above flood stage on the 3d. Since the runoff was rapid, much of the rainfall over the lower basin had run off by the time the upper stream crest reached Napa. Consequently, the river did not reach flood stage at that point. The Russian River crested 7.3 ft. above flood stage at Summerhome, and 4.5 ft. above flood stage at Guerneville Bridge, Calif., on the 4th. Damages due to the high water on the lower Russian River were estimated at \$244,000 by the Corps of Engineers. Minor damages occurred in the San Francisco Bay area due to small creek overflows on the 3d. Damages on the upper Napa River were estimated at \$10,000.

Heavy rain during the last 3 days of the month caused

GENERAL SUMMARY OF RIVER AND FLOOD CONDITIONS-Continued

DECEMBER 1970

nearly 2 ft. of flooding on the Coquille River at Myrtle Point, Oreg., on the 31st. Damage from the flooding was very slight and limited to debris on low lands and county roads.

Columbia Basin.--Only the low elevation coastal and Coast Range Willamette tributary basins were subjected to overbank flows during the wet and cold month of December. Precipitation fell over most of the Lower Columbia Basin on all but 7 or 8 days of December. However, with low freezing levels most of the month's precipitation fell primarily as snow which accumulated at median and higher elevations.

Freezing levels rose significantly during periods of warm, moist air advection. There were at least three such periods accompanied by heavy rainfall at lower levels. The first occurred on the 6-7th. The second, on the 15-17th, and the third on the 27th-31st.

Five to 7 inches of precipitation occurred on the 6-7th. Excessive runoff resulted in the Nehalem River basin, particularly on the North Fork. A peak flow of near 40,000 c.f.s. was observed near Foss, Oreg., on the 7th. This flow was near the previous maximum flow of 43,200 c.f.s. recorded at Foss on Jan. 25, 1964. One death resulted from the high water when a farmer was swept from his horse while attempting to rescue livestock stranded on an island formed by the flood waters. On the lee side of the Coast Range, the South Yamhill near Whiteson, Oreg., crested 3 ft. above flood stage and the Tualatin River near Dilley, Oreg., crested 0.6 ft. above flood stage on the 7-8th.

The second period of significant precipitation occurred in northwestern Oregon on the 15-17th. Four to 6 inches of rain were reported in the northwest coastal basins during the 3-day period. Rainfall in the Willamette Basin ranged from 1 to 2 inches in the upper sub-basins to 2 to 3 inches in the middle basin. Only the Tualatin River near Dilley, Oreg., exceeded flood stage on the 15-17th.

The third period of significant precipitation began

late on the 27th and continued through the 31st. The first storm of a four-day series brought about 1 inch amounts to the Cascade Range drainages. During the next 3 1/2 days several storms moved across western Oregon at 24 to 36-hour intervals. Precipitation reported from the 28th to 31st was near 6 inches at coastal and Coast Range stations, 3 inches at Willamette Valley points, and near 5 inches at Cascade locations. The more flashy coastal and Willamette tributary streams responded with minor peaks on the 29th and then with substantial rises on the 30th-31st. On the Coast Range side, the Luckiamute River near Suver, Oreg., crested 1 foot over flood stage on the 31st. The South Yamhill River near Whiteson, Oreg., crested one-half foot above major flood level. The Tualatin River near Dilley, Oreg., crested 0.8 ft. above flood stage on the 31st and 2 ft. above flood stage at Farmington, Oreg., on Jan. 2. In the local Portland area, Johnson Creek at Sycamore, Oreg., crested at flood stage on the 30th.

The total flood damages from the three rises were estimated by the Corps of Engineers at \$492,000.

Northern Coastal Basin.--The Chehalis River at Centralia, Wash., exceeded flood stage twice during December. The first flooding on the 6-9th was due to heavy rain which totalled about 8 inches in 3 days at Frances in the Willapa Hills in southwestern Washington. The crest which was 4.3 ft. above flood stage on the 8th resulted in widespread overflow of lowlands and roads. The second period of flooding occurred at the end of the month and on Jan. 1, 1971. The crest on the 31st was 1.5 ft. above flood stage. Only minor lowland flooding occurred.

The Snohomish River at Snohomish, Wash., exceeded flood stage by 0.2 ft. briefly on the 7th. The overflow was due to rainfall that averaged about 4 inches in 2 days over the upper portion of the basin. The flooding was negligible.

FLOOD STAGE DATA

(All dates in December unless otherwise specified)

DECEMBER 1970

| River and station | Flood stage | Above flood stages -dates | | Crest * | |
|------------------------------------|-------------|---------------------------|--------|---------|---------|
| | | From- | To- | Stage | Date |
| <u>MISSISSIPPI SYSTEM</u> | | | | | |
| <u>Missouri Basin</u> | | | | | |
| Platte Grand Island, Nebr. | 3.5 | 14 | 25 | 4.3 | 18 |
| <u>Ohio Basin</u> | | | | | |
| Taggart Belington, W. Va. | 14 | 22 | 23 | 14.3 | 22 |
| Philippi, W. Va. | 17 | 22 | 23 | 19.8 | 22 |
| West Fork Weston, W. Va. | 17 | 22 | 22 | 18.4 | 22 |
| Clarksburg, W. Va. | 11 | 22 | 23 | 7.6 | 23 |
| Cheat Parsons, W. Va. | 11 | 22 | 23 | 13.6 | 22 |
| Monongahela Lock 4, Charleroi, Pa. | 26 | 23 | 23 | 26.7 | 23 |
| Lock 3, Elizabeth, Pa. | 20 | 23 | 23 | 20.1 | 23 |
| Green Lock 1, Woodbury, Ky. | 33 | 23 | 24 | 33.2 | 24 |
| Vincennes Austin, Ind. | 116 | 23 | 25 | 19.4 | 24 |
| Ohio: Dam No. 47, Newburgh, Ind. | 38 | 26 | 30 | 40.4 | 28 |
| Dam No. 48, Cypress, Ind. | 38 | 27 | 30 | 39.0 | 29 |
| Mt. Vernon, Ind. | 35 | 28 | 30 | 35.7 | 29 |
| Shawneetown, Ill. | 33 | 27 | 31 | 34.8 | 30 |
| Dam No. 50, Fords Ferry, Ky. | 34 | 27 | Jan. 1 | 36.7 | 30 |
| <u>White Basin</u> | | | | | |
| Cache: Patterson, Ark. | 7 | Nov. 15 | 2 | 7.8 | Nov. 20 |
| | | 19 | 1 | 9.0 | 24, 28 |
| White: Clarendon, Ark. | 26 | 31 | Jan. 2 | 26.0 | 31 |
| <u>PACIFIC SLOPE DRAINAGE</u> | | | | | |
| <u>Sacramento Basin</u> | | | | | |
| Sacramento: Bend Bridge, Calif. | 38 | 4 | 4 | 39.4 | 4 |
| Vina (Woodson Bridge), Calif. | 183 | 4 | 5 | 186.0 | 4 |
| Ord Ferry, Calif. | 110.5 | 4 | 5 | 114.4 | 5 |
| | | 9 | 9 | 111.4 | 9 |
| Moulton Weir, Calif. | 76.8 | 5 | 7 | 79.2 | 6 |
| | | 9 | 10 | 78.2 | 10 |

| River and station | Flood stage | Above flood stages -dates | | Crest | | |
|------------------------------------|-------------|---------------------------|------|-----------|--------|------|
| | | From- | To- | Stage | Date | |
| <u>PACIFIC SLOPE DRAINAGE</u> | | <u>Ft</u> | | <u>Ft</u> | | |
| Sacramento: Colusa Weir, Calif. | W61.8 | 1 | 23 | 66.7 | | |
| Colusa Bridge, Calif. | W63 | 4 | 7 | 65.1 | | |
| | | 8 | 11 | 64.2 | | |
| Tisdale Weir, Calif. | W45.5 | 1 | | 19.2 | | |
| Fremont Weir, Calif. | W33.5 | 2 | 23 | 33.6 | | |
| <u>San Francisco Bay Basin</u> | | | | | | |
| Napa St Helena, Calif. | 11 | 4 | 4 | 14.0 | | |
| <u>Central Coastal Basins</u> | | | | | | |
| Russian Summerhouse, Calif. | 32 | 3 | 5 | 39.3 | | |
| Guerneville Bridge, Calif. | 32 | 4 | 5 | 36.5 | | |
| Van Duzen: Bridgeville(nr), Calif. | 17 | 3 | 4 | 17.9 | | |
| Eel: Fernbridge, Calif. | 29 | 4 | 4 | 21.6 | | |
| Coquille: Myrtle Point, Oreg. | 35 | 11 | 31 | 36.8 | | |
| <u>Colombia Basin</u> | | | | | | |
| Luckiamute: Suver, Oreg. | 27 | 31 | Jan. | 1 28.1 | | |
| South Yamhill: Whiteson, Oreg. | 38 | 7 | 9 | 40.8 | | |
| | | 14 | Jan. | 2 42.5 | | |
| Pudding: Aurora, Oreg. | 26 | 31 | Jan. | 2 21.3 | Jan. | |
| Tualatin: Dilley, Oreg. | 17 | 6 | 8 | 17.6 | | |
| | | 13 | 18 | 17.4 | | |
| | | 30 | Jan. | 1 17.8 | | |
| Farmington, Oreg. | 29 | Jan. | 1 | Jan. | 5 30.9 | Jan. |
| Johnson Creek: Sycamore, Oreg. | 8 | 36 | 30 | 8.0 | | |
| <u>Northern Coastal Basin</u> | | | | | | |
| Chehalis: Centralia, Wash. | 63 | 6 | 9 | 67.3 | | |
| | | 31 | Jan. | 1 64.5 | | |
| Snohomish: Snohomish, Wash. | 25 | 7 | 7 | 25.2 | | |
| * Provisional | | | | | | |
| 1/ Continued at end of month | | | | | | |
| 1 Pontalava | | | | | | |
| W Warning stage | | | | | | |

* Provisional
 1/ Continued at end of month
 I Tentative
 W Warning stage

Average monthly values

DECEMBER 1970

| BOISE, IDAHO | | | | | | | | | | BROWNSVILLE, TEXAS | | | | | | | | | | BUFFALO, N. Y. | | | | | | | | | | CAPE HATTERAS, N. C. | | | | | | | | | | CARIBOU, MAINE | | | | | | | | | |
|--------------|----|--------|-------|------|--------|--------|-------|-----|------|--------------------|--------|--------|-------|------|------|--------|--------|-------|-----|----------------|------|--------|--------|-------|-----|------|------|--|--|----------------------|--|--|--|--|--|--|--|--|--|----------------|--|--|--|--|--|--|--|--|--|
| 916 MB | | | | | | | | | | 1016 MB | | | | | | | | | | 989 MB | | | | | | | | | | 1018 MB | | | | | | | | | | 990 MB | | | | | | | | | |
| SURFACE | 31 | 87. | -4.4 | 5.9 | 17.5 | 15.1 | 16 | 5.9 | 21.8 | -3.6 | -6.1 | 26 | 1.8 | 31 | 4 | 8.0 | 5.1 | 32 | 2.7 | 31 | 191 | -13.9 | -17.2 | 34 | 3.6 | | | | | | | | | | | | | | | | | | | | | | | | |
| 1000 | 31 | 158 | | 3 | 143 | 18.3 | 16.1 | 16 | 3.2 | 133 | | 31 | 31 | 152 | 9.2 | 2.6 | 30 | 3.8 | 31 | 112 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 950 | 31 | 574 | | 3 | 583 | 16.6 | 13.3 | 16 | 7.0 | 539 | -4.6 | -7.5 | 26 | 4.5 | 31 | 577 | 7.3 | 1.0 | 29 | 6.8 | 31 | 503 | -13.3 | -16.9 | 34 | 5.9 | | | | | | | | | | | | | | | | | | | | | | | |
| 900 | 5 | 1,009 | | 3 | 1,043 | 15.1 | 9.9 | 17 | 8.1 | 964 | -6.0 | -8.9 | 26 | 7.9 | 31 | 1,021 | 5.7 | -3.3 | 28 | 9.2 | 31 | 915 | -13.5 | -18.1 | 34 | 6.3 | | | | | | | | | | | | | | | | | | | | | | | |
| 850 | 31 | 1,466 | -1.8 | 2.7 | 1,527 | 13.3 | 5.6 | 18 | 7.5 | 1,411 | -6.9 | -10.9 | 27 | 9.8 | 31 | 1,487 | 4.7 | -8.6 | 27 | 11.6 | 31 | 1,350 | -12.7 | -18.3 | 33 | 6.9 | | | | | | | | | | | | | | | | | | | | | | | |
| 800 | 31 | 1,846 | -4.6 | 5.1 | 2,037 | 12.8 | -2.7 | 20 | 5.7 | 1,888 | -8.0 | -13.7 | 28 | 11.1 | 31 | 1,979 | 2.4 | -12.4 | 27 | 13.7 | 31 | 1,813 | -12.9 | -18.4 | 32 | 7.8 | | | | | | | | | | | | | | | | | | | | | | | |
| 750 | 31 | 2,245 | -11.7 | 7.5 | 2,577 | 10.7 | -7.5 | 25 | 4.8 | 2,383 | -9.7 | -16.1 | 28 | 12.3 | 31 | 2,449 | 1.7 | -15.9 | 27 | 15.9 | 31 | 2,305 | -10.7 | -19.7 | 31 | 9.2 | | | | | | | | | | | | | | | | | | | | | | | |
| 700 | 31 | 2,986 | -10.0 | 9.1 | 3,149 | 8.0 | -12.5 | 25 | 4.8 | 2,913 | -12.3 | -19.0 | 28 | 13.9 | 31 | 3,050 | -2.0 | -18.4 | 27 | 18.2 | 31 | 2,827 | -15.7 | -21.8 | 31 | 10.5 | | | | | | | | | | | | | | | | | | | | | | | |
| 650 | 31 | 3,555 | -13.2 | 10.5 | 3,756 | 4.0 | -14.7 | 26 | 5.9 | 3,477 | -15.1 | -22.0 | 28 | 16.0 | 31 | 3,636 | -4.6 | -21.1 | 28 | 21.3 | 31 | 3,384 | -17.7 | -23.8 | 30 | 11.7 | | | | | | | | | | | | | | | | | | | | | | | |
| 600 | 31 | 4,160 | -16.8 | 12.9 | 4,402 | 0.0 | -19.7 | 26 | 7.5 | 4,078 | -18.6 | -25.0 | 28 | 17.7 | 31 | 4,262 | -8.0 | -24.2 | 28 | 23.8 | 31 | 3,980 | -20.5 | -26.7 | 30 | 13.3 | | | | | | | | | | | | | | | | | | | | | | | |
| 550 | 31 | 4,809 | -20.7 | 14.0 | 5,092 | -4.7 | -24.5 | 26 | 9.6 | 4,722 | -22.2 | -28.8 | 28 | 20.0 | 31 | 4,933 | -11.9 | -27.0 | 27 | 25.8 | 31 | 4,619 | -24.3 | -30.3 | 30 | 14.9 | | | | | | | | | | | | | | | | | | | | | | | |
| 500 | 31 | 5,508 | -25.2 | 15.3 | 5,835 | -9.6 | -29.3 | 26 | 8.5 | 5,417 | -26.4 | -33.1 | 28 | 21.9 | 31 | 5,656 | -16.7 | -30.4 | 27 | 28.8 | 31 | 5,308 | -28.3 | -34.9 | 29 | 17.3 | | | | | | | | | | | | | | | | | | | | | | | |
| 450 | 31 | 6,245 | -37.4 | 18.1 | 6,600 | -13.2 | -33.4 | 26 | 11.6 | 6,171 | -34.7 | -38.0 | 28 | 24.8 | 31 | 6,438 | -22.0 | -34.1 | 28 | 31.9 | 31 | 6,055 | -34.7 | -40.0 | 29 | 18.2 | | | | | | | | | | | | | | | | | | | | | | | |
| 400 | 31 | 7,090 | -37.0 | 20.3 | 7,518 | -22.0 | -38.5 | 26 | 13.6 | 6,995 | -36.7 | -41.9 | 28 | 28.2 | 31 | 7,295 | -28.1 | -38.9 | 28 | 35.8 | 31 | 6,873 | -39.3 | -44.4 | 29 | 20.1 | | | | | | | | | | | | | | | | | | | | | | | |
| 350 | 31 | 8,003 | -43.9 | 20.6 | 8,489 | -29.4 | -44.3 | 26 | 15.6 | 7,913 | -41.9 | -44.7 | 28 | 32.0 | 31 | 8,244 | -34.7 | -44.3 | 28 | 39.1 | 31 | 7,777 | -46.0 | -50.9 | 29 | 21.6 | | | | | | | | | | | | | | | | | | | | | | | |
| 300 | 31 | 9,021 | -50.2 | 27 | 9,566 | -38.3 | -52.4 | 26 | 16.7 | 8,941 | -47.7 | | 28 | 35.1 | 31 | 9,300 | -42.7 | -50.0 | 28 | 41.7 | 31 | 8,786 | -51.4 | | 28 | 26.3 | | | | | | | | | | | | | | | | | | | | | | | |
| 250 | 31 | 10,197 | -55.1 | 27 | 10,794 | -48.1 | | 27 | 19.2 | 10,132 | -52.7 | | 28 | 32.6 | 31 | 10,508 | -50.8 | | 28 | 42.9 | 31 | 9,962 | -54.0 | | 28 | 27.2 | | | | | | | | | | | | | | | | | | | | | | | |
| 200 | 31 | 11,617 | -55.8 | 27 | 12,313 | -57.3 | | 26 | 24.1 | 11,586 | -54.3 | | 28 | 30.7 | 31 | 11,939 | -57.0 | | 28 | 42.6 | 30 | 11,400 | -52.3 | | 28 | 25.2 | | | | | | | | | | | | | | | | | | | | | | | |
| 150 | 31 | 12,488 | -55.6 | 28 | 13,070 | -62.3 | | 26 | 25.2 | 13,121 | -54.8 | | 28 | 29.0 | 31 | 12,433 | -57.9 | | 28 | 41.8 | 30 | 12,265 | -52.1 | | 27 | 26.2 | | | | | | | | | | | | | | | | | | | | | | | |
| 100 | 30 | 13,452 | -55.3 | 27 | 14,014 | -64.9 | | 25 | 25.2 | 13,406 | -55.6 | | 28 | 27.8 | 31 | 13,753 | -58.7 | | 28 | 41.8 | 30 | 13,263 | -52.3 | | 27 | 23.8 | | | | | | | | | | | | | | | | | | | | | | | |
| 125 | 31 | 14,614 | -56.5 | 27 | 15,117 | -68.6 | | 25 | 23.2 | 14,565 | -57.2 | | 28 | 23.6 | 29 | 14,886 | -61.3 | | 28 | 36.9 | 29 | 14,439 | -54.1 | | 27 | 21.5 | | | | | | | | | | | | | | | | | | | | | | | |
| 100 | 30 | 16,023 | -57.9 | 27 | 16.8 | 16,439 | -73.4 | | 25 | 16.5 | 15,971 | -58.8 | | 28 | 19.9 | 29 | 16,260 | -64.6 | | 28 | 31.0 | 29 | 15,866 | -55.6 | | 27 | 20.7 | | | | | | | | | | | | | | | | | | | | | | |
| 80 | 29 | 17,426 | -58.9 | 27 | 14.3 | 17,738 | -75.5 | | 25 | 10.6 | 17,367 | -60.3 | | 28 | 14.2 | 29 | 17,616 | -65.7 | | 28 | 28.0 | 29 | 17,282 | -57.5 | | 27 | 17.9 | | | | | | | | | | | | | | | | | | | | | | |
| 70 | 28 | 18,263 | -59.0 | 28 | 13.0 | 18,514 | -74.1 | | 26 | 8.2 | 18,198 | -61.2 | | 28 | 14.7 | 28 | 18,429 | -65.5 | | 28 | 24.1 | 29 | 18,124 | -58.7 | | 27 | 16.3 | | | | | | | | | | | | | | | | | | | | | | |
| 60 | 29 | 19,320 | -59.1 | 28 | 10.5 | 19,499 | -70.1 | | 26 | 5.8 | 19,158 | -62.6 | | 28 | 11.8 | 29 | 19,371 | -67.5 | | 28 | 18.9 | 29 | 19,033 | -59.8 | | 27 | 15.0 | | | | | | | | | | | | | | | | | | | | | | |
| 50 | 25 | 20,372 | -59.5 | 29 | 8.3 | 20,517 | -65.2 | | 27 | 4.3 | 20,268 | -62.0 | | 28 | 10.9 | 27 | 20,493 | -61.0 | | 27 | 13.1 | 26 | 20,245 | -59.8 | | 27 | 16.4 | | | | | | | | | | | | | | | | | | | | | | |
| 40 | 24 | 21,772 | -59.4 | 30 | 7.3 | 21,891 | -60.9 | | 26 | 9.0 | 21,671 | -61.4 | | 29 | 10.1 | 27 | 21,885 | -59.1 | | 27 | 12.1 | 25 | 21,636 | -60.7 | | 27 | 15.4 | | | | | | | | | | | | | | | | | | | | | | |
| 30 | 24 | 23,576 | -59.1 | 32 | 7.3 | 23,711 | -56.6 | | 26 | 11.5 | 23,458 | -60.0 | | 30 | 10.0 | 26 | 23,705 | -55.9 | | 27 | 16.6 | 24 | 23,430 | -61.1 | | 27 | 15.5 | | | | | | | | | | | | | | | | | | | | | | |
| 20 | 24 | 24,712 | -59.0 | 32 | 9.4 | 24,869 | -56.1 | | 26 | 11.9 | 14,261 | -61.6 | | 29 | 10.3 | 26 | 24,867 | -55.5 | | 27 | 17.0 | 24 | 24,563 | -61.2 | | 27 | 18.2 | | | | | | | | | | | | | | | | | | | | | | |
| 10 | 26 | 26,119 | -58.9 | 31 | 11.6 | 26,293 | -54.1 | | 26 | 12.5 | 26,099 | -59.2 | | 24 | 26.3 | 30 | 26,300 | -54.0 | | 27 | 19.2 | 22 | 25,952 | -61.6 | | 27 | 21.9 | | | | | | | | | | | | | | | | | | | | | | |
| 10 | 11 | 27,927 | -58.9 | 34 | 15.2 | 28,127 | -59.8 | | 26 | 18.1 | 27,825 | -58.4 | | 27 | 18.1 | 15 | 27,713 | -58.1 | | 27 | 26.3 | 15 | 27,713 | -58.1 | | 27 | 24.3 | | | | | | | | | | | | | | | | | | | | | | |
| 10 | 5 | 30,481 | -59.1 | | 20 | 30,852 | -43.5 | | 26 | 29.9 | 9 | 30,402 | -57.4 | | 18 | 30,819 | -45.7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | 17 | 33,296 | -36.3 | | 25 | 34.9 | | | | | | 33,226 | -40.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | 4 | 35,661 | -33.2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

See reference note at end of table

RAWINSONDE DATA

Average monthly values

DECEMBER 1970

| CHATHAM, MASS. | | | | | | | | | | COLD BAY, ALASKA | | | | | | | | | |
|--------------------------------|--------------------|----------------|-------------|-----------|-----------|-------|--------------------|----------------|-------------|------------------|-----------|-------|--------------------|----------------|-------------|-----------|-----------|-------|--------------------|
| 858 MB | | | | | | | | | | 1003 MB | | | | | | | | | |
| 981 MB | | | | | | | | | | | | | | | | | | | |
| Standard pressure surface (mb) | No of observations | Dynamic height | Temperature | Dew Point | Direction | Speed | No of observations | Dynamic height | Temperature | Dew Point | Direction | Speed | No of observations | Dynamic height | Temperature | Dew Point | Direction | Speed | No of observations |
| 5.000 | 3 | 13 | 7.6 | 4.0 | 28 | 1.3 | 3 | 10 | -5 | -3.7 | 33 | 2.1 | 31 | 14.28 | 6.5 | -1.6 | 1.8 | 3 | 30 |
| 1000 | 3 | 159 | 1.9 | 4.1 | 107 | 1.9 | 3 | 148 | 1.8 | 1.4 | 19 | 1.5 | 31 | 147 | 1.4 | 1.4 | 1.5 | 31 | 147 |
| 900 | 3 | 388 | 10.6 | 1.3 | 27 | 4.8 | 3 | 580 | 5.6 | 3 | 30 | 4.6 | 3 | 464 | -3.0 | -8.2 | 1.8 | 31 | 558 |
| 800 | 3 | 1050 | -3.7 | -1.0 | 27 | 8.8 | 3 | 1031 | 6.7 | 3 | 30 | 4.6 | 3 | 464 | -3.0 | -8.2 | 1.8 | 31 | 558 |
| 700 | 3 | 2009 | 5.6 | -5.9 | 28 | 11.3 | 3 | 2011 | 11.3 | 3 | 30 | 4.6 | 3 | 464 | -3.0 | -8.2 | 1.8 | 31 | 558 |
| 600 | 3 | 2535 | 3.8 | -10.6 | 28 | 13.3 | 3 | 2537 | 14.0 | 3 | 30 | 4.6 | 3 | 464 | -3.0 | -8.2 | 1.8 | 31 | 558 |
| 500 | 3 | 3093 | -1.4 | -14.2 | 28 | 15.4 | 3 | 3097 | 14.9 | 3 | 30 | 4.6 | 3 | 464 | -3.0 | -8.2 | 1.8 | 31 | 558 |
| 400 | 3 | 3687 | -1.4 | -17.4 | 28 | 18.1 | 3 | 3675 | 17.4 | 3 | 30 | 4.6 | 3 | 464 | -3.0 | -8.2 | 1.8 | 31 | 558 |
| 300 | 3 | 4321 | -1.9 | -19.9 | 28 | 20.7 | 3 | 4301 | 19.6 | 3 | 30 | 4.6 | 3 | 464 | -3.0 | -8.2 | 1.8 | 31 | 558 |
| 200 | 3 | 4999 | -2.3 | -23.4 | 28 | 21.9 | 3 | 4979 | 20.7 | 3 | 30 | 4.6 | 3 | 464 | -3.0 | -8.2 | 1.8 | 31 | 558 |
| 100 | 3 | 5729 | -14.0 | -27.5 | 28 | 25.1 | 3 | 5629 | 23.5 | 3 | 30 | 4.6 | 3 | 464 | -3.0 | -8.2 | 1.8 | 31 | 558 |
| 50 | 3 | 6521 | -19.4 | -32.3 | 28 | 27.7 | 3 | 6488 | 24.2 | 3 | 30 | 4.6 | 3 | 464 | -3.0 | -8.2 | 1.8 | 31 | 558 |
| 30 | 3 | 7385 | -26.0 | -37.1 | 28 | 30.0 | 3 | 7318 | 28.3 | 3 | 30 | 4.6 | 3 | 464 | -3.0 | -8.2 | 1.8 | 31 | 558 |
| 20 | 3 | 8242 | -32.9 | -43.6 | 28 | 34.0 | 3 | 8174 | 31.8 | 3 | 30 | 4.6 | 3 | 464 | -3.0 | -8.2 | 1.8 | 31 | 558 |
| 10 | 3 | 9040 | -41.5 | -49.0 | 28 | 36.5 | 3 | 8972 | 34.9 | 3 | 30 | 4.6 | 3 | 464 | -3.0 | -8.2 | 1.8 | 31 | 558 |
| 5 | 3 | 10617 | -50.7 | -57.6 | 28 | 39.5 | 3 | 10559 | 38.2 | 3 | 30 | 4.6 | 3 | 464 | -3.0 | -8.2 | 1.8 | 31 | 558 |
| 0 | 3 | 12085 | -59.6 | -64.8 | 28 | 42.8 | 3 | 12027 | 40.8 | 3 | 30 | 4.6 | 3 | 464 | -3.0 | -8.2 | 1.8 | 31 | 558 |
| 150 | 3 | 13846 | -61.1 | -66.6 | 28 | 44.9 | 3 | 13788 | 42.8 | 3 | 30 | 4.6 | 3 | 464 | -3.0 | -8.2 | 1.8 | 31 | 558 |
| 100 | 3 | 15726 | -64.6 | -67.7 | 28 | 46.4 | 3 | 15668 | 44.9 | 3 | 30 | 4.6 | 3 | 464 | -3.0 | -8.2 | 1.8 | 31 | 558 |
| 50 | 3 | 17656 | -69.6 | -70.2 | 28 | 48.1 | 3 | 17598 | 46.4 | 3 | 30 | 4.6 | 3 | 464 | -3.0 | -8.2 | 1.8 | 31 | 558 |
| 20 | 3 | 18453 | -68.9 | -70.2 | 28 | 50.3 | 3 | 18395 | 48.1 | 3 | 30 | 4.6 | 3 | 464 | -3.0 | -8.2 | 1.8 | 31 | 558 |
| 10 | 3 | 19381 | -66.7 | -70.2 | 28 | 51.2 | 3 | 19323 | 50.3 | 3 | 30 | 4.6 | 3 | 464 | -3.0 | -8.2 | 1.8 | 31 | 558 |
| 5 | 3 | 20496 | -63.7 | -70.2 | 28 | 51.2 | 3 | 20438 | 51.2 | 3 | 30 | 4.6 | 3 | 464 | -3.0 | -8.2 | 1.8 | 31 | 558 |
| 0 | 3 | 21876 | -60.4 | -70.2 | 28 | 51.2 | 3 | 21818 | 51.2 | 3 | 30 | 4.6 | 3 | 464 | -3.0 | -8.2 | 1.8 | 31 | 558 |
| 150 | 3 | 23690 | -56.1 | -70.2 | 28 | 51.2 | 3 | 23632 | 51.2 | 3 | 30 | 4.6 | 3 | 464 | -3.0 | -8.2 | 1.8 | 31 | 558 |
| 100 | 3 | 24847 | -55.4 | -70.2 | 28 | 51.2 | 3 | 24789 | 51.2 | 3 | 30 | 4.6 | 3 | 464 | -3.0 | -8.2 | 1.8 | 31 | 558 |
| 50 | 3 | 26277 | -53.3 | -70.2 | 28 | 51.2 | 3 | 26219 | 51.2 | 3 | 30 | 4.6 | 3 | 464 | -3.0 | -8.2 | 1.8 | 31 | 558 |
| 20 | 3 | 28133 | -52.2 | -70.2 | 28 | 51.2 | 3 | 28075 | 51.2 | 3 | 30 | 4.6 | 3 | 464 | -3.0 | -8.2 | 1.8 | 31 | 558 |
| 10 | 3 | 30797 | -46.2 | -70.2 | 28 | 51.2 | 3 | 30739 | 51.2 | 3 | 30 | 4.6 | 3 | 464 | -3.0 | -8.2 | 1.8 | 31 | 558 |
| 5 | 3 | | | | | | 3 | | | 3 | 30 | 4.6 | 3 | 464 | -3.0 | -8.2 | 1.8 | 31 | 558 |
| 0 | 3 | | | | | | 3 | | | 3 | 30 | 4.6 | 3 | 464 | -3.0 | -8.2 | 1.8 | 31 | 558 |

See reference note at end of table

Average monthly values

DECEMBER 1970

| GRAND JUNCTION, COLO. *
853 MB | | | | | | | | | | | | | GREAT FALLS, MONT.
882 MB | | | | | | | | | | | | | GREEN BAY, WIS.
990 MB | | | | | | | | | | | | | GREENSBORO, N. C.
986 MB | | | | | | | | | | | | | GUAM, MARIANA IS.
998 MB | | | | | | | | | | | | |
|-----------------------------------|----|--------------------|------|----------------|----|-------------|----|-----------|-------|-----------|----|-------|------------------------------|--------------------|-------|----------------|----|-------------|----|-----------|-------|-----------|----|-------|----|---------------------------|------|----------------|-------|-------------|------|-----------|-------|-----------|------|-------|-----|--------------------|-----------------------------|----------------|------|-------------|-------|-----------|------|-----------|--|-------|--|--|--|-----------------------------|--|--|--|--|--|--|--|--|--|--|--|--|
| Standard pressure surface (mb) | | No of observations | | Dynamic height | | Temperature | | Dew Point | | Direction | | Speed | | No of observations | | Dynamic height | | Temperature | | Dew Point | | Direction | | Speed | | No of observations | | Dynamic height | | Temperature | | Dew Point | | Direction | | Speed | | No of observations | | Dynamic height | | Temperature | | Dew Point | | Direction | | Speed | | | | | | | | | | | | | | | | |
| 1000 | 31 | 1,472 | -3.3 | -8.3 | 12 | 2.8 | 31 | 1,118 | -5.7 | -12.2 | 22 | 5.6 | 31 | 210 | -7.0 | -9.1 | 29 | 9 | 31 | 275 | 1.5 | -11.6 | 29 | 8 | 31 | 111 | 25.5 | 23.2 | 08 | 4.5 | 31 | 192 | 25.5 | 23.2 | 08 | 4.5 | 31 | 192 | 25.5 | 23.2 | 08 | 4.5 | | | | | | | | | | | | | | | | | | | | | | |
| 950 | 31 | 1,495 | | | | | 31 | 1,124 | | | | | 31 | 129 | | | | 1 | 31 | 160 | | | | 31 | 92 | 25.5 | 23.2 | 08 | 4.5 | 31 | 192 | 25.5 | 23.2 | 08 | 4.5 | 31 | 192 | 25.5 | 23.2 | 08 | 4.5 | | | | | | | | | | | | | | | | | | | | | | | |
| 900 | 31 | 1,510 | | | | | 31 | 1,133 | | | | | 31 | 530 | -6.4 | -8.5 | 29 | 1.6 | 31 | 177 | 4.4 | -3.6 | 28 | 3.6 | 31 | 544 | 23.1 | 20.8 | 08 | 11.9 | 31 | 544 | 23.1 | 20.8 | 08 | 11.9 | 31 | 544 | 23.1 | 20.8 | 08 | 11.9 | | | | | | | | | | | | | | | | | | | | | | |
| 850 | 31 | 1,544 | | | | | 31 | 1,149 | | | | | 31 | 953 | -6.8 | -11.1 | 28 | 2.8 | 31 | 1,018 | 3.8 | -4.5 | 28 | 7.7 | 31 | 1,015 | 20.2 | 17.0 | 08 | 12.3 | 31 | 1,015 | 20.2 | 17.0 | 08 | 12.3 | 31 | 1,015 | 20.2 | 17.0 | 08 | 12.3 | | | | | | | | | | | | | | | | | | | | | | |
| 800 | 31 | 1,589 | | | | | 31 | 1,187 | | | | | 31 | 1,673 | -7.6 | -15.3 | 28 | 5.8 | 31 | 1,171 | 1.1 | -9.5 | 28 | 13.3 | 31 | 1,171 | 19.9 | 11.2 | 08 | 10.9 | 31 | 1,171 | 19.9 | 11.2 | 08 | 10.9 | 31 | 1,171 | 19.9 | 11.2 | 08 | 10.9 | | | | | | | | | | | | | | | | | | | | | | |
| 750 | 31 | 1,633 | -1.3 | -8.4 | 17 | 3.7 | 31 | 1,230 | -6.5 | -14.4 | 25 | 11.2 | 31 | 2,374 | -9.4 | -18.0 | 28 | 7.9 | 31 | 1,249 | -4.4 | -14.2 | 28 | 15.5 | 31 | 1,249 | 15.5 | 12.3 | 08 | 10.9 | 31 | 1,249 | 15.5 | 12.3 | 08 | 10.9 | 31 | 1,249 | 15.5 | 12.3 | 08 | 10.9 | | | | | | | | | | | | | | | | | | | | | | |
| 700 | 31 | 1,683 | -1.7 | -10.9 | 22 | 4.8 | 31 | 1,292 | -11.7 | -18.8 | 27 | 13.4 | 31 | 2,905 | -11.5 | -19.3 | 28 | 10.8 | 31 | 1,309 | -2.2 | -16.1 | 28 | 18.0 | 31 | 1,309 | 18.0 | 10.4 | -6.1 | 08 | 10.4 | 31 | 1,309 | 18.0 | 10.4 | -6.1 | 08 | 10.4 | 31 | 1,309 | 18.0 | 10.4 | -6.1 | 08 | 10.4 | | | | | | | | | | | | | | | | | | | |
| 650 | 31 | 1,733 | -2.4 | -14.3 | 25 | 6.1 | 31 | 1,346 | -15.1 | -22.1 | 28 | 14.1 | 31 | 3,670 | -14.5 | -22.6 | 28 | 12.0 | 31 | 1,362 | -5.0 | -19.2 | 28 | 20.6 | 31 | 1,362 | 20.6 | 7.4 | -12.3 | 08 | 11.0 | 31 | 1,362 | 20.6 | 7.4 | -12.3 | 08 | 11.0 | 31 | 1,362 | 20.6 | 7.4 | -12.3 | 08 | 11.0 | | | | | | | | | | | | | | | | | | | |
| 600 | 31 | 1,783 | -3.2 | -17.9 | 29 | 9.1 | 31 | 1,403 | -18.5 | -26.4 | 28 | 14.4 | 31 | 4,073 | -18.0 | -26.8 | 28 | 13.3 | 31 | 1,421 | -8.5 | -22.5 | 28 | 23.4 | 31 | 1,421 | 23.4 | 4.9 | -16.4 | 08 | 11.2 | 31 | 1,421 | 23.4 | 4.9 | -16.4 | 08 | 11.2 | 31 | 1,421 | 23.4 | 4.9 | -16.4 | 08 | 11.2 | | | | | | | | | | | | | | | | | | | |
| 550 | 31 | 1,833 | -4.1 | -21.8 | 31 | 11.1 | 31 | 1,458 | -20.7 | -30.3 | 27 | 15.8 | 31 | 4,718 | -21.8 | -30.2 | 28 | 15.9 | 31 | 1,492 | -12.6 | -26.6 | 28 | 25.7 | 31 | 1,492 | 25.7 | 5.1 | -21.7 | 08 | 10.9 | 31 | 1,492 | 25.7 | 5.1 | -21.7 | 08 | 10.9 | 31 | 1,492 | 25.7 | 5.1 | -21.7 | 08 | 10.9 | | | | | | | | | | | | | | | | | | | |
| 500 | 31 | 1,883 | -5.0 | -25.7 | 33 | 12.0 | 31 | 1,513 | -22.1 | -35.3 | 27 | 16.8 | 31 | 5,413 | -20.6 | -34 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| HILD, HAWAII
1017 MB | | | | | | | | | | HUNTINGTON W. VA.
988 MB | | | | | | | | | | * INTERNATIONAL FALLS, MINN.
971 MB | | | | | | | | | | JACKSON, MISS.
1008 MB | | | | | | | | | | JOHN F. KENNEDY INT. AP NY
1016 MB | | | | | | | | | |
|-------------------------|----|--------|-------|-------|----|------|----|--------|-------|-----------------------------|----|------|----|--------|--------|-------|----|------|-----|--|-------|-------|-----|------|-----|--------|-------|-------|-----|---------------------------|--|--|--|--|--|--|--|--|--|---------------------------------------|--|--|--|--|--|--|--|--|--|
| SURFACE | 31 | 11 | 20.2 | 17.5 | 25 | 1.3 | 30 | 246 | -2.1 | -1.7 | 22 | 2.0 | 30 | 359 | -17.0 | -19.1 | 19 | .6 | 31 | 100 | 8.5 | 6.4 | 17 | .9 | 30 | 5 | 1.2 | -5.7 | 32 | 3.5 | | | | | | | | | | | | | | | | | | | |
| 9500 | 31 | 154 | 20.8 | 16.8 | 38 | .6 | 30 | 184 | | | | 5 | 30 | 134 | | | | 31 | 163 | 9.2 | 4.2 | 18 | 1.3 | 30 | 133 | -8.1 | -6.7 | 32 | 4.6 | | | | | | | | | | | | | | | | | | | | |
| 1000 | 31 | 597 | 17.7 | 14.9 | 08 | .3 | 30 | 548 | 2.3 | -2.0 | 25 | 5 | 30 | 521 | -15.8 | -17.0 | 21 | 1.7 | 31 | 590 | 9.5 | 1.8 | 24 | 4.1 | 30 | 534 | -1.9 | -6.8 | 31 | 6.6 | | | | | | | | | | | | | | | | | | | |
| 1500 | 31 | 1095 | 17.1 | 12.5 | 08 | 1.1 | 30 | 948 | 2.4 | -3.4 | 24 | 5 | 30 | 1015 | -14.6 | -16.2 | 23 | 3.7 | 31 | 1070 | -1.6 | 6.9 | 27 | 9.7 | 30 | 971 | -8.7 | -8.7 | 30 | 7.8 | | | | | | | | | | | | | | | | | | | |
| 850 | 31 | 1538 | 11.1 | 9.6 | 08 | 5.0 | 30 | 1498 | -9.6 | -7.3 | 27 | 11.0 | 30 | 1370 | -11.3 | -14.7 | 25 | 5.8 | 31 | 1511 | 7.9 | -2.7 | 27 | 9.0 | 30 | 1425 | -3.3 | -11.7 | 30 | 10.8 | | | | | | | | | | | | | | | | | | | |
| 800 | 31 | 2043 | 8.3 | 5.5 | 08 | 6.1 | 30 | 1942 | -1.7 | -10.2 | 27 | 13.8 | 30 | 1836 | -11.4 | -16.4 | 26 | 6.6 | 31 | 2011 | 6.8 | -6.3 | 27 | 10.9 | 30 | 1903 | -4.9 | -14.0 | 29 | 12.9 | | | | | | | | | | | | | | | | | | | |
| 750 | 31 | 2574 | 5.7 | -1.5 | 09 | 7.3 | 30 | 2494 | -3.3 | -12.6 | 27 | 16.1 | 30 | 2330 | -12.7 | -19.1 | 27 | 8.3 | 31 | 2539 | 5.0 | -11.2 | 26 | 12.2 | 30 | 2409 | -7.1 | -16.2 | 29 | 14.9 | | | | | | | | | | | | | | | | | | | |
| 700 | 31 | 3137 | 3.6 | -9.4 | 08 | 7.9 | 30 | 2998 | -5.5 | -15.4 | 27 | 18.1 | 30 | 2854 | -14.7 | -21.4 | 27 | 10.0 | 31 | 3099 | 2.5 | -13.8 | 26 | 13.6 | 30 | 2944 | -9.5 | -18.7 | 28 | 17.7 | | | | | | | | | | | | | | | | | | | |
| 650 | 31 | 3735 | 1.8 | -22.1 | 08 | 6.1 | 30 | 3577 | -7.8 | -18.9 | 28 | 20.5 | 30 | 3412 | -17.7 | -25.1 | 28 | 11.0 | 31 | 3695 | -9.7 | -16.3 | 27 | 15.9 | 30 | 3511 | -12.2 | -22.1 | 28 | 20.4 | | | | | | | | | | | | | | | | | | | |
| 600 | 31 | 4375 | -2.2 | -27.7 | 08 | 7.1 | 30 | 4196 | -11.1 | -22.4 | 28 | 23.1 | 30 | 4048 | -28.7 | -28.7 | 28 | 12.6 | 31 | 4330 | -16.6 | -26.0 | 27 | 18.0 | 30 | 4122 | -15.8 | -25.0 | 28 | 22.9 | | | | | | | | | | | | | | | | | | | |
| 550 | 31 | 5050 | -6.5 | -22.7 | 07 | 6.3 | 30 | 4859 | -15.3 | -26.3 | 28 | 27.0 | 30 | 4645 | -24.7 | -32.6 | 28 | 14.7 | 31 | 5010 | -8.5 | -23.1 | 27 | 21.0 | 30 | 4773 | -19.6 | -29.9 | 28 | 25.9 | | | | | | | | | | | | | | | | | | | |
| 500 | 31 | 5798 | -11.2 | -28.6 | 06 | 5.9 | 30 | 5573 | -19.9 | -30.5 | 28 | 30.2 | 30 | 5332 | -29.5 | -37.0 | 28 | 15.8 | 31 | 5742 | -13.5 | -27.6 | 27 | 23.1 | 30 | 5475 | -23.8 | -33.3 | 28 | 30.4 | | | | | | | | | | | | | | | | | | | |
| 450 | 31 | 6599 | -16.4 | -33.3 | 03 | 4.5 | 30 | 6347 | -24.7 | -34.5 | 28 | 32.9 | 30 | 6076 | -34.5 | -40.5 | 28 | 17.7 | 31 | 6535 | -18.8 | -32.3 | 27 | 26.6 | 30 | 6238 | -24.8 | -37.7 | 28 | 34.6 | | | | | | | | | | | | | | | | | | | |
| 400 | 31 | 7474 | -22.8 | -39.1 | 36 | 3.4 | 30 | 7194 | -30.8 | -39.9 | 28 | 37.6 | 30 | 6890 | -40.2 | -44.3 | 28 | 19.7 | 31 | 7402 | -25.1 | -38.5 | 27 | 29.9 | 30 | 7073 | -33.8 | -41.2 | 28 | 37.3 | | | | | | | | | | | | | | | | | | | |
| 350 | 31 | 8442 | -34.3 | -45.1 | 36 | 3.3 | 30 | 8132 | -39.7 | -43.5 | 28 | 41.5 | 30 | 7792 | -45.2 | -51.2 | 28 | 21.0 | 31 | 8126 | -34.3 | -47.7 | 27 | 33.2 | 30 | 8001 | -33.7 | -44.8 | 28 | 41.6 | | | | | | | | | | | | | | | | | | | |
| 300 | 31 | 9518 | -38.4 | -51.1 | 32 | 10.9 | 30 | 9178 | -44.6 | | 28 | 46.1 | 30 | 8800 | -50.5 | | 28 | 23.4 | 31 | 9427 | -40.8 | -49.5 | 27 | 35.8 | 30 | 9039 | -45.7 | | 28 | 57.3 | | | | | | | | | | | | | | | | | | | |
| 250 | 31 | 10,748 | -47.1 | | 31 | 16.3 | 29 | 10,374 | -52.1 | | 28 | 46.6 | 30 | 9,971 | -55.2 | | 28 | 25.4 | 31 | 10,643 | -50.3 | | 27 | 38.9 | 30 | 10,238 | -51.1 | | 28 | 46.2 | | | | | | | | | | | | | | | | | | | |
| 200 | 31 | 12,196 | -55.6 | | 30 | 20.4 | 29 | 11,800 | -57.2 | | 28 | 42.9 | 30 | 11,398 | -53.8 | | 28 | 25.8 | 31 | 12,071 | -58.0 | | 27 | 41.5 | 30 | 11,679 | -54.1 | | 28 | 42.9 | | | | | | | | | | | | | | | | | | | |
| 175 | 31 | 13,039 | -60.0 | | 30 | 20.5 | 29 | 12,643 | -57.4 | | 28 | 40.3 | 30 | 12,258 | -53.3 | | 28 | 25.9 | 31 | 12,908 | -60.4 | | 27 | 40.0 | 24 | 12,529 | -54.5 | | 28 | 39.2 | | | | | | | | | | | | | | | | | | | |
| 150 | 31 | 13,491 | -64.9 | | 29 | 18.9 | 29 | 13,085 | -58.5 | | 28 | 35.8 | 30 | 12,683 | -58.5 | | 28 | 24.0 | 31 | 13,365 | -62.3 | | 27 | 37.2 | 24 | 13,001 | -57.6 | | 28 | 37.2 | | | | | | | | | | | | | | | | | | | |
| 125 | 31 | 15,090 | -68.8 | | 31 | 14.9 | 29 | 14,756 | -61.0 | | 28 | 30.0 | 30 | 14,419 | -58.8 | | 28 | 22 | 31 | 14,982 | -63.8 | | 27 | 33.2 | 23 | 14,672 | -57.4 | | 28 | 29.0 | | | | | | | | | | | | | | | | | | | |
| 100 | 30 | 16,404 | -74.0 | | 32 | 9.5 | 26 | 16,131 | -62.6 | | 28 | 26.5 | 29 | 15,839 | -56.5 | | 28 | 20.0 | 31 | 16,325 | -61.5 | | 27 | 27.9 | 21 | 16,082 | -59.7 | | 28 | 26.6 | | | | | | | | | | | | | | | | | | | |
| 75 | 31 | 17,701 | -73.4 | | 36 | 4.1 | 25 | 17,503 | -63.9 | | 28 | 21.0 | 27 | 17,236 | -58.1 | | 28 | 20.0 | 31 | 17,649 | -71.2 | | 27 | 21.5 | 20 | 17,469 | -60.7 | | 28 | 23.2 | | | | | | | | | | | | | | | | | | | |
| 70 | 28 | 18,488 | -70.3 | | 02 | 1.5 | 25 | 18,323 | -63.6 | | 28 | 16.9 | 27 | 18,076 | -59.8 | | 28 | 18.0 | 31 | 18,440 | -70.9 | | 27 | 18.2 | 18 | 18,301 | -60.3 | | 28 | 20.0 | | | | | | | | | | | | | | | | | | | |
| 65 | 31 | 19,418 | -65.6 | | 26 | 7.7 | 19 | 19,267 | -63.4 | | 28 | 13.3 | 27 | 19,042 | -58.8 | | 28 | 16.7 | 30 | 19,357 | -69.0 | | 27 | 18.9 | 19 | 19,260 | -60.2 | | 28 | 19.6 | | | | | | | | | | | | | | | | | | | |
| 60 | 30 | 20,535 | -62.5 | | 19 | 3.3 | 23 | 20,392 | -60.3 | | 28 | 12.0 | 26 | 20,160 | -55.3 | | 28 | 15.5 | 30 | 20,475 | -66.0 | | 27 | 18.1 | 17 | 20,300 | -59.5 | | 28 | 20.1 | | | | | | | | | | | | | | | | | | | |
| 40 | 27 | 21,916 | -61.1 | | 09 | 4.8 | 23 | 21,775 | -60.9 | | 28 | 9.7 | 24 | 21,567 | -61.9 | | 29 | 16.5 | 30 | 21,823 | -62.1 | | 27 | 11.0 | 18 | 21,787 | -59.2 | | 28 | 14.2 | | | | | | | | | | | | | | | | | | | |
| 30 | 21 | 23,720 | -57.3 | | 10 | 1.9 | 20 | 23,586 | -58.4 | | 28 | 11.1 | 24 | 23,344 | -62.6 | | 29 | 18.1 | 30 | 23,615 | -59.2 | | 27 | 14.3 | 17 | 23,605 | -57.8 | | 27 | 12.1 | | | | | | | | | | | | | | | | | | | |
| 25 | 20 | 24,879 | -55.3 | | 03 | 1.6 | 18 | 24,742 | -57.2 | | 27 | 11.3 | 24 | 24,467 | -63.4 | | 29 | 19.3 | 28 | 24,768 | -57.4 | | 27 | 16.3 | 15 | 24,750 | -57.6 | | 28 | 15.3 | | | | | | | | | | | | | | | | | | | |
| 20 | 20 | 26,311 | -53.1 | | 01 | 1.5 | 18 | 26,165 | -55.5 | | 27 | 12.6 | 22 | 25,821 | -60.8 | | 29 | 20.0 | 28 | 26,183 | -55.8 | | 26 | 19.0 | 15 | 26,165 | -55.8 | | 28 | 16.8 | | | | | | | | | | | | | | | | | | | |
| 15 | 20 | 28,176 | -51.2 | | 01 | 8.1 | 15 | 28,000 | -51.2 | | 26 | 11.1 | 22 | 27,826 | -58.1 | | 30 | 20.4 | 27 | 28,140 | -57.8 | | 26 | 17.9 | 14 | 28,120 | -51.9 | | 27 | 20.4 | | | | | | | | | | | | | | | | | | | |
| 10 | 10 | 30,834 | -47.1 | | 26 | 12.6 | 6 | 30,614 | -51.3 | | 26 | 11 | 30 | 30,126 | -64.8 | | | | | | | | 26 | 23.4 | 10 | 30,362 | -48.7 | | | | | | | | | | | | | | | | | | | | | | |
| 7 | 7 | 33,188 | -43.2 | | | | | | | | | | | 5 | 32,257 | -65.2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| JOHNSTON IS., PACIFIC AREA
1012 MB | | | | | | | | | | KEY WEST, FLA.
1018 MB | | | | | | | | | | KING SALMON, ALASKA
1004 MB | | | | | | | | | | + | KOROR, CAROLINE IS.
1006 MB | | | | | | | | | | KOTZEBUE, ALASKA
1010 MB | | | | | | | | | |
|---------------------------------------|--|--------|-------|-------|--|------|----|--------|-------|---------------------------|----|------|----|--------|-------|-------|----|------|----|--------------------------------|-------|-------|----|------|----|--------|-------|-------|----|------|--------------------------------|--|--|--|--|--|--|--|--|--|-----------------------------|--|--|--|--|--|--|--|--|--|
| SURFACE | 31 | 3 | 25.1 | 21.5 | 09 | 9.0 | 29 | 3 | 20.5 | 16.9 | 05 | 2.1 | 31 | 15 | -12.3 | -17.0 | 34 | 1.4 | 31 | 30 | 27.5 | 24.9 | 07 | 3.4 | 29 | 5 | -19.6 | -23.0 | 14 | 1.5 | | | | | | | | | | | | | | | | | | | | |
| 1000 | 31 <td>110</td> <td>24.0</td> <td>20.2</td> <td>09<td>9.6</td><td>29</td><td>157</td><td>20.1</td><td>15.9</td><td>07</td><td>4.0</td><td>31</td><td>44</td><td></td><td></td><td></td><td>1.6</td><td>31</td><td>81</td><td>26.9</td><td>23.2</td><td>07</td><td>4.2</td><td>29</td><td>79</td><td></td><td></td><td>12</td><td>1.5</td></td> | 110 | 24.0 | 20.2 | 09 <td>9.6</td> <td>29</td> <td>157</td> <td>20.1</td> <td>15.9</td> <td>07</td> <td>4.0</td> <td>31</td> <td>44</td> <td></td> <td></td> <td></td> <td>1.6</td> <td>31</td> <td>81</td> <td>26.9</td> <td>23.2</td> <td>07</td> <td>4.2</td> <td>29</td> <td>79</td> <td></td> <td></td> <td>12</td> <td>1.5</td> | 9.6 | 29 | 157 | 20.1 | 15.9 | 07 | 4.0 | 31 | 44 | | | | 1.6 | 31 | 81 | 26.9 | 23.2 | 07 | 4.2 | 29 | 79 | | | 12 | 1.5 | | | | | | | | | | | | | | | | | | | | |
| 1500 | 31 | 558 | 20.6 | 17.7 | 09 <td>11.0</td> <td>29</td> <td>594</td> <td>17.2</td> <td>12.7</td> <td>07</td> <td>4.0</td> <td>31</td> <td>439</td> <td>-9.8</td> <td>-14.4</td> <td>32</td> <td>2.9</td> <td>31</td> <td>534</td> <td>24.0</td> <td>19.8</td> <td>07</td> <td>8.0</td> <td>29</td> <td>468</td> <td>-13.7</td> <td>-18.9</td> <td>21</td> <td>1.3</td> | 11.0 | 29 | 594 | 17.2 | 12.7 | 07 | 4.0 | 31 | 439 | -9.8 | -14.4 | 32 | 2.9 | 31 | 534 | 24.0 | 19.8 | 07 | 8.0 | 29 | 468 | -13.7 | -18.9 | 21 | 1.3 | | | | | | | | | | | | | | | | | | | | |
| 2000 | 31 | 1,024 | 17.7 | 14.2 | 10 <td>11.0</td> <td>29</td> <td>1,059</td> <td>14.9</td> <td>6.7</td> <td>11</td> <td>3.4</td> <td>31</td> <td>857</td> <td>-9.6</td> <td>-15.0</td> <td>32</td> <td>4.7</td> <td>31</td> <td>1,006</td> <td>21.0</td> <td>16.2</td> <td>07</td> <td>8.7</td> <td>29</td> <td>880</td> <td>-14.0</td> <td>-19.2</td> <td>03</td> <td>1.0</td> | 11.0 | 29 | 1,059 | 14.9 | 6.7 | 11 | 3.4 | 31 | 857 | -9.6 | -15.0 | 32 | 4.7 | 31 | 1,006 | 21.0 | 16.2 | 07 | 8.7 | 29 | 880 | -14.0 | -19.2 | 03 | 1.0 | | | | | | | | | | | | | | | | | | | | |
| 2500 | 31 | 1,511 | 14.8 | 10.7 | 10 <td>10.0</td> <td>29</td> <td>1,542</td> <td>12.9</td> <td>2.8</td> <td>12</td> <td>1.7</td> <td>31</td> <td>1,298</td> <td>-10.2</td> <td>-17.1</td> <td>31</td> <td>5.8</td> <td>31</td> <td>1,500</td> <td>18.2</td> <td>12.4</td> <td>08</td> <td>8.8</td> <td>29</td> <td>1,313</td> <td>-15.1</td> <td>-21.2</td> <td>07</td> <td>1.0</td> | 10.0 | 29 | 1,542 | 12.9 | 2.8 | 12 | 1.7 | 31 | 1,298 | -10.2 | -17.1 | 31 | 5.8 | 31 | 1,500 | 18.2 | 12.4 | 08 | 8.8 | 29 | 1,313 | -15.1 | -21.2 | 07 | 1.0 | | | | | | | | | | | | | | | | | | | | |
| 3000 | 31 | 2,022 | 12.2 | 5.7 | 10 <td>8.9</td> <td>29</td> <td>2,050</td> <td>11.3</td> <td>-7.0</td> <td>12</td> <td>1.9</td> <td>31</td> <td>1,764</td> <td>-11.5</td> <td>-18.8</td> <td>31</td> <td>6.1</td> <td>31</td> <td>2,018</td> <td>15.9</td> <td>8.2</td> <td>08</td> <td>8.4</td> <td>29</td> <td>1,770</td> <td>-17.0</td> <td>-22.5</td> <td>08</td> <td>1.0</td> | 8.9 | 29 | 2,050 | 11.3 | -7.0 | 12 | 1.9 | 31 | 1,764 | -11.5 | -18.8 | 31 | 6.1 | 31 | 2,018 | 15.9 | 8.2 | 08 | 8.4 | 29 | 1,770 | -17.0 | -22.5 | 08 | 1.0 | | | | | | | | | | | | | | | | | | | | |
| 3500 | 31 | 2,549 | 9.7 | -3.3 | 10 <td>7.2</td> <td>29</td> <td>2,579</td> <td>7.7</td> <td>-12.8</td> <td>13</td> <td>1.5</td> <td>31</td> <td>2,221</td> <td>-13.9</td> <td>-21.9</td> <td>30</td> <td>7.0</td> <td>31</td> <td>2,568</td> <td>13.3</td> <td>4.4</td> <td>08</td> <td>8.2</td> <td>29</td> <td>2,265</td> <td>-18.1</td> <td>-25.0</td> <td>03</td> <td>1.0</td> | 7.2 | 29 | 2,579 | 7.7 | -12.8 | 13 | 1.5 | 31 | 2,221 | -13.9 | -21.9 | 30 | 7.0 | 31 | 2,568 | 13.3 | 4.4 | 08 | 8.2 | 29 | 2,265 | -18.1 | -25.0 | 03 | 1.0 | | | | | | | | | | | | | | | | | | | | |
| 4000 | 31 | 3,132 | 6.7 | -6.8 | 10 <td>6.2</td> <td>29</td> <td>3,157</td> <td>7.3</td> <td>-15.1</td> <td>12</td> <td>1.0</td> <td>31</td> <td>2,778</td> <td>-20.2</td> <td>-25.3</td> <td>30</td> <td>7.7</td> <td>31</td> <td>3,143</td> <td>0.0</td> <td>-4.0</td> <td>09</td> <td>9.3</td> <td>29</td> <td>2,764</td> <td>-21.3</td> <td>-29.8</td> <td>03</td> <td>1.5</td> | 6.2 | 29 | 3,157 | 7.3 | -15.1 | 12 | 1.0 | 31 | 2,778 | -20.2 | -25.3 | 30 | 7.7 | 31 | 3,143 | 0.0 | -4.0 | 09 | 9.3 | 29 | 2,764 | -21.3 | -29.8 | 03 | 1.5 | | | | | | | | | | | | | | | | | | | | |
| 4500 | 31 | 3,738 | 3.7 | -9.1 | 09 <td>6.2</td> <td>29</td> <td>3,757</td> <td>4.3</td> <td>-18.7</td> <td>13</td> <td>2.5</td> <td>31</td> <td>3,330</td> <td>-20.4</td> <td>-28.7</td> <td>30</td> <td>8.1</td> <td>31</td> <td>3,756</td> <td>6.7</td> <td>-3.8</td> <td>09</td> <td>10.2</td> <td>29</td> <td>3,307</td> <td>-24.4</td> <td>-32.6</td> <td>03</td> <td>1.7</td> | 6.2 | 29 | 3,757 | 4.3 | -18.7 | 13 | 2.5 | 31 | 3,330 | -20.4 | -28.7 | 30 | 8.1 | 31 | 3,756 | 6.7 | -3.8 | 09 | 10.2 | 29 | 3,307 | -24.4 | -32.6 | 03 | 1.7 | | | | | | | | | | | | | | | | | | | | |
| 5000 | 31 | 4,383 | 0.0 | -12.6 | 08 <td>5.1</td> <td>29</td> <td>4,409</td> <td>4.3</td> <td>-22.6</td> <td>30</td> <td>4.4</td> <td>31</td> <td>3,919</td> <td>-23.6</td> <td>-31.8</td> <td>30</td> <td>9.9</td> <td>31</td> <td>4,409</td> <td>2.9</td> <td>-7.3</td> <td>09</td> <td>11.5</td> <td>29</td> <td>3,886</td> <td>-27.8</td> <td>-35.9</td> <td>36</td> <td>2.1</td> | 5.1 | 29 | 4,409 | 4.3 | -22.6 | 30 | 4.4 | 31 | 3,919 | -23.6 | -31.8 | 30 | 9.9 | 31 | 4,409 | 2.9 | -7.3 | 09 | 11.5 | 29 | 3,886 | -27.8 | -35.9 | 36 | 2.1 | | | | | | | | | | | | | | | | | | | | |
| 5500 | 31 | 5,076 | -3.8 | -15.2 | 06 <td>3.3</td> <td>29</td> <td>5,093</td> <td>-4.3</td> <td>-26.8</td> <td>30</td> <td>5.3</td> <td>31</td> <td>4,520</td> <td>-27.7</td> <td>-36.4</td> <td>30</td> <td>10.9</td> <td>31</td> <td>5,108</td> <td>-1.1</td> <td>-11.7</td> <td>09</td> <td>11.9</td> <td>29</td> <td>4,507</td> <td>-31.8</td> <td>-39.3</td> <td>34</td> <td>1.6</td> | 3.3 | 29 | 5,093 | -4.3 | -26.8 | 30 | 5.3 | 31 | 4,520 | -27.7 | -36.4 | 30 | 10.9 | 31 | 5,108 | -1.1 | -11.7 | 09 | 11.9 | 29 | 4,507 | -31.8 | -39.3 | 34 | 1.6 | | | | | | | | | | | | | | | | | | | | |
| 6000 | 31 | 5,822 | -8.1 | -19.3 | 03 <td>2.2</td> <td>29</td> <td>5,845</td> <td>-9.7</td> <td>-31.3</td> <td>30</td> <td>7.6</td> <td>31</td> <td>5,229</td> <td>-32.2</td> <td>-40.0</td> <td>30</td> <td>12.8</td> <td>31</td> <td>5,863</td> <td>-5.3</td> <td>-18.0</td> <td>09</td> <td>12.9</td> <td>29</td> <td>5,174</td> <td>-36.2</td> <td>-42.5</td> <td>31</td> <td>2.4</td> | 2.2 | 29 | 5,845 | -9.7 | -31.3 | 30 | 7.6 | 31 | 5,229 | -32.2 | -40.0 | 30 | 12.8 | 31 | 5,863 | -5.3 | -18.0 | 09 | 12.9 | 29 | 5,174 | -36.2 | -42.5 | 31 | 2.4 | | | | | | | | | | | | | | | | | | | | |
| 6500 | 31 | 6,633 | -13.0 | -25.2 | 34 <td>2.9</td> <td>29</td> <td>6,662</td> <td>-15.1</td> <td>-35.7</td> <td>29</td> <td>10.0</td> <td>31</td> <td>5,965</td> <td>-37.1</td> <td>-42.5</td> <td>30</td> <td>13.8</td> <td>31</td> <td>6,684</td> <td>-9.8</td> <td>-23.4</td> <td>09</td> <td>13.6</td> <td>29</td> <td>5,899</td> <td>-40.9</td> <td>-44.8</td> <td>29</td> <td>1.6</td> | 2.9 | 29 | 6,662 | -15.1 | -35.7 | 29 | 10.0 | 31 | 5,965 | -37.1 | -42.5 | 30 | 13.8 | 31 | 6,684 | -9.8 | -23.4 | 09 | 13.6 | 29 | 5,899 | -40.9 | -44.8 | 29 | 1.6 | | | | | | | | | | | | | | | | | | | | |
| 7000 | 31 | 7,521 | -16.4 | -30.3 | 29 <td>2.9</td> <td>29</td> <td>7,549</td> <td>-18.2</td> <td>-35.9</td> <td>29</td> <td>12.5</td> <td>31</td> <td>6,667</td> <td>-46.8</td> <td>-43.5</td> <td>29</td> <td>13.6</td> <td>31</td> <td>7,585</td> <td>-11.2</td> <td>-25.8</td> <td>08</td> <td>12.1</td> <td>29</td> <td>6,849</td> <td>-43.9</td> <td>-48.8</td> <td>31</td> <td>2.8</td> | 2.9 | 29 | 7,549 | -18.2 | -35.9 | 29 | 12.5 | 31 | 6,667 | -46.8 | -43.5 | 29 | 13.6 | 31 | 7,585 | -11.2 | -25.8 | 08 | 12.1 | 29 | 6,849 | -43.9 | -48.8 | 31 | 2.8 | | | | | | | | | | | | | | | | | | | | |
| 7500 | 31 | 8,504 | -26.4 | -38.2 | 29 <td>7.3</td> <td>29</td> <td>8,497</td> <td>-29.5</td> <td>-47.7</td> <td>29</td> <td>12.5</td> <td>31</td> <td>7,667</td> <td>-46.8</td> <td></td> <td></td> <td></td> <td></td> <td>7,583</td> <td>-21.8</td> <td>-35.1</td> <td>10</td> <td>11.7</td> <td>29</td> <td>7,572</td> <td>-51.0</td> <td></td> <td>34</td> <td>4.1</td> | 7.3 | 29 | 8,497 | -29.5 | -47.7 | 29 | 12.5 | 31 | 7,667 | -46.8 | | | | | 7,583 | -21.8 | -35.1 | 10 | 11.7 | 29 | 7,572 | -51.0 | | 34 | 4.1 | | | | | | | | | | | | | | | | | | | | |
| 8000 | 31 | 9,596 | -34.8 | -46.6 | 28 <td>10.3</td> <td>29</td> <td>9,577</td> <td>-38.0</td> <td>-54.2</td> <td>28</td> <td>15.4</td> <td>31</td> <td>8,676</td> <td>-50.7</td> <td></td> <td></td> <td></td> <td></td> <td>9,697</td> <td>-30.0</td> <td>-44.0</td> <td>10</td> <td>11.3</td> <td>29</td> <td>8,562</td> <td>-55.1</td> <td></td> <td>30</td> <td>5.7</td> | 10.3 | 29 | 9,577 | -38.0 | -54.2 | 28 | 15.4 | 31 | 8,676 | -50.7 | | | | | 9,697 | -30.0 | -44.0 | 10 | 11.3 | 29 | 8,562 | -55.1 | | 30 | 5.7 | | | | | | | | | | | | | | | | | | | | |
| 8500 | 31 | 10,844 | -44.3 | | 28 | 15.8 | 29 | 10,808 | -47.4 | | 28 | 20.2 | 31 | 9,859 | -52.7 | | | | | 10,768 | -40.4 | -52.4 | 10 | 10.5 | 29 | 9,720 | -55.9 | | 28 | 7.7 | | | | | | | | | | | | | | | | | | | | |
| 9000 | 31 | 12,305 | -54.7 | | 27 | 20.4 | 29 | 12,252 | -56.6 | | 26 | 25.2 | 31 | 11,305 | -52.0 | | | | | 12,249 | -52.8 | | 10 | 10.6 | 29 | 11,140 | -55.1 | | 27 | 10.7 | | | | | | | | | | | | | | | | | | | | |
| 9500 | 31 | 13,149 | -60.5 | | 27 | 22.0 | 29 | 13,091 | -60.6 | | 26 | 27.8 | 31 | 12,172 | -50.9 | | | | | 13,298 | -59.9 | | 10 | 11.2 | 29 | 11,995 | -54.7 | | 26 | 10.8 | | | | | | | | | | | | | | | | | | | | |
| 10000 | 31 | 14,409 | -66.5 | | 29 | 17.1 | 29 | 14,406 | -64.9 | | 26 | 27.4 | 31 | 13,176 | -50.7 | | | | | 14,242 | -68.0 | | 10 | 12.7 | 29 | 12,985 | -53.7 | | 26 | 14.1 | | | | | | | | | | | | | | | | | | | | |
| 10500 | 31 | 15,495 | -72.3 | | 30 | 11.2 | 28 | 15,139 | -69.8 | | 27 | 23.0 | 31 | 14,364 | -50.8 | | | | | 15,574 | -57.7 | | 10 | 10.3 | 29 | 14,155 | -55.2 | | 26 | 15.7 | | | | | | | | | | | | | | | | | | | | |
| 11000 | 31 | 16,475 | -77.8 | | 34 | 4.3 | 28 | 16,448 | -75.4 | | 28 | 17.0 | 31 | 15,817 | -51.7 | | | | | 16,976 | -86.2 | | 09 | 19.1 | 29 | 15,587 | -54.1 | | 26 | 19.7 | | | | | | | | | | | | | | | | | | | | |
| 11500 | 31 | 17,751 | -77.6 | | 05 | 4.7 | 27 | 17,732 | -76.6 | | 29 | 8.6 | 31 | 17,265 | -52.2 | | | | | 17,813 | -80.4 | | 10 | 12.9 | 29 | 17,018 | -54.4 | | 26 | 23.2 | | | | | | | | | | | | | | | | | | | | |
| 12000 | 31 | 18,526 | -77.2 | | 06 | 5.2 | 26 | 18,502 | -74.9 | | 30 | 5.1 | 31 | 18,124 | -52.5 | | | | | 18,579 | -74.3 | | 09 | 9.4 | 29 | 17,873 | -54.8 | | 26 | 23.9 | | | | | | | | | | | | | | | | | | | | |
| 12500 | 31 | 19,444 | -66.9 | | 09 | 5.9 | 26 | 19,408 | -69.5 | | 29 | 4.0 | 31 | 19,121 | -52.3 | | | | | 19,490 | -69.6 | | 09 | 13.4 | 29 | 18,858 | -55.1 | | 26 | 26.6 | | | | | | | | | | | | | | | | | | | | |
| 13000 | 31 | 20,555 | -63.1 | | 10 | 8.1 | 26 | 20,514 | -63.4 | | 28 | 4.7 | 30 | 20,298 | -52.9 | | | | | 20,590 | -65.2 | | 09 | 20.6 | 29 | 20,021 | -55.8 | | 26 | 28.8 | | | | | | | | | | | | | | | | | | | | |
| 13500 | 31 | 21,936 | -60.4 | | 24 | 5.9 | 24 | 21,892 | -58.3 | | 26 | 15.2 | 31 | 21,736 | -53.4 | | | | | 21,944 | -59.3 | | 09 | 21.8 | 29 | 21,440 | -56.4 | | 27 | 32.5 | | | | | | | | | | | | | | | | | | | | |
| 14000 | 31 | 23,750 | -56.2 | | 08 | 5.7 | 23 | 23,726 | -54.9 | | 29 | 4.4 | 26 | 23,591 | -54.8 | | | | | 23,794 | -53.3 | | 09 | 22.3 | 28 | 23,260 | -57.7 | | 27 | 35.8 | | | | | | | | | | | | | | | | | | | | |
| 14500 | 31 | 24,915 | -53.4 | | 05 | 3.2 | 24 | 24,893 | -54.1 | | 28 | 4.9 | 24 | 24,760 | -54.0 | | | | | 24,979 | -49.2 | | 09 | 7.9 | 27 | 24,413 | -58.2 | | 27 | 39.4 | | | | | | | | | | | | | | | | | | | | |
| 15000 | 31 | 26,350 | -51.6 | | 30 | 3.2 | 21 | 26,324 | -51.6 | | 28 | 6.8 | 18 | 26,168 | -54.2 | | | | | 26,443 | -47.1 | | 26 | 9.7 | 25 | 25,821 | -58.2 | | 27 | 42.5 | | | | | | | | | | | | | | | | | | | | |
| 15500 | 31 | 28,226 | -49.4 | | 26 | 10.4 | 19 | 28,209 | -47.0 | | 27 | 10.6 | 16 | 27,907 | -59.3 | | | | | 28,359 | -45.2 | | 27 | 18.2 | 13 | 27,768 | -63.3 | | | | | | | | | | | | | | | | | | | | | | | |
| 16000 | 31 | 30,938 | -42.9 | | 10 | | | 30,915 | -40.9 | | 26 | 25.0 | | | | | | | | 31,075 | -41.4 | | 27 | 21.8 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 17000 | 31 | | | | 7 | | | 33,550 | -37.4 | | | | | | | | | | | 33,551 | -39.4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Average monthly values

1080 J. Polym. Sci. Part A: Polym. Chem.: Vol. 42, 1904-1914 (2004)

[illegible]

| MCGRATH, ALASKA
996 MB | | | | | | | | | | MAJURO, MARSHALL IS.
1008 MB | | | | | | | | | | MEDFORD, OREG.
969 MB | | | | | | | | | | MERIDA, MEXICO
1015 MB | | | | | | | | | | MIAMI, FLA.
1019 MB | | | | | | | | | |
|---------------------------|----|--------|-------|-------|----|--------|-------|--------|-------|---------------------------------|------|------|-----|--------|-------|-------|----|------|-----|--------------------------|-------|-------|------|------|--------|--------|-------|-------|------|---------------------------|-----|--|--|--|--|--|--|--|--|------------------------|--|--|--|--|--|--|--|--|--|
| SURFACE | 25 | 103 | -22.8 | -22.2 | 27 | .8 | 31 | 3 | 28.1 | 3 | 28.1 | 08 | 5.3 | 30 | -01 | 1.7 | -2 | 24 | .4 | 31 | 11 | 18.4 | 17.7 | 08 | 1.3 | 30 | 4 | 18.7 | 16.7 | 05 | .7 | | | | | | | | | | | | | | | | | | |
| 1000 | 26 | 70 | | | | | 31 | 75 | 26.8 | 18.5 | 08 | 6.3 | 30 | 142 | | | | | | 31 | 144 | 21.6 | 19.4 | 09 | 4.9 | 30 | 163 | 20.1 | 15.1 | 08 | 1.8 | | | | | | | | | | | | | | | | | | |
| 950 | 26 | 584 | -15.6 | -19.1 | 06 | 1.4 | 31 | 527 | 23.2 | 17.4 | 08 | 8.7 | 30 | 557 | 1.8 | -2 | 21 | .4 | 31 | 589 | 19.8 | 16.0 | 10 | 6.3 | 30 | 604 | 17.3 | 12.4 | 11 | 2.8 | | | | | | | | | | | | | | | | | | | |
| 900 | 26 | 863 | -14.5 | -18.5 | 07 | 3.3 | 31 | 997 | 20.5 | 14.3 | 08 | 9.0 | 30 | 993 | 1.4 | -2 | 26 | 17 | 3.1 | 1,054 | 17.3 | 11.1 | 09 | 5.5 | 30 | 1,065 | 14.5 | 9.4 | 11 | 2.0 | | | | | | | | | | | | | | | | | | | |
| 850 | 26 | 1,299 | -11.1 | -16.8 | 04 | 1.6 | 31 | 1,449 | 17.8 | 10.3 | 08 | 9.3 | 30 | 1,452 | -1.0 | -5.5 | 20 | 3.1 | 31 | 1,541 | 14.6 | 6.0 | 07 | 3.0 | 30 | 1,560 | 12.6 | 3.2 | 07 | .7 | | | | | | | | | | | | | | | | | | | |
| 800 | 26 | 1,763 | -12.5 | -17.9 | 33 | 1.6 | 31 | 2,005 | 15.7 | 9.2 | 09 | 8.2 | 30 | 2,030 | -0.1 | -8.1 | 28 | 8.3 | 31 | 2,083 | 11.1 | 1.1 | 09 | 2.3 | 30 | 2,084 | 11.0 | -1.6 | 31 | .7 | | | | | | | | | | | | | | | | | | | |
| 750 | 26 | 2,254 | -15.0 | -21.5 | 31 | 1.5 | 31 | 2,592 | 13.2 | 1.7 | 09 | 8.0 | 30 | 2,643 | -5.6 | -11.7 | 24 | 10.3 | 31 | 2,590 | 9.7 | -3.1 | 11 | 2.6 | 30 | 2,591 | 9.4 | -9.4 | 28 | 1.5 | | | | | | | | | | | | | | | | | | | |
| 700 | 26 | 2,773 | -18.0 | -25.0 | 28 | 2.3 | 31 | 3,131 | 10.6 | -3.4 | 09 | 6.2 | 30 | 2,982 | -6.2 | -15.0 | 25 | 11.2 | 31 | 3,162 | 8.2 | -9.5 | 10 | 2.0 | 30 | 3,161 | 7.4 | -12.8 | 29 | 3.9 | | | | | | | | | | | | | | | | | | | |
| 650 | 26 | 3,323 | -21.3 | -28.5 | 27 | 2.3 | 31 | 3,745 | 7.4 | -7.4 | 09 | 6.0 | 30 | 3,554 | -11.4 | -18.2 | 25 | 12.3 | 31 | 3,770 | 5.3 | -13.9 | 10 | 1.6 | 30 | 3,768 | 4.2 | -16.2 | 29 | 6.8 | | | | | | | | | | | | | | | | | | | |
| 600 | 26 | 3,910 | -25.0 | -32.3 | 26 | 3.5 | 31 | 4,400 | 3.7 | -11.0 | 08 | 5.2 | 30 | 4,163 | -15.6 | -22.8 | 26 | 12.9 | 31 | 4,619 | 1.5 | -18.3 | 10 | 1.4 | 30 | 4,614 | .3 | -19.8 | 29 | 4.7 | | | | | | | | | | | | | | | | | | | |
| 550 | 26 | 4,537 | -29.2 | -36.4 | 25 | 4.1 | 30 | 5,101 | -1.1 | -15.6 | 07 | 5.2 | 30 | 4,814 | -20.0 | -26.8 | 26 | 13.6 | 31 | 5,115 | -2.8 | -22.6 | 09 | 1.5 | 31 | 5,105 | -4.1 | -24.3 | 29 | 8.1 | | | | | | | | | | | | | | | | | | | |
| 500 | 26 | 5,213 | -33.8 | -40.6 | 25 | 4.6 | 30 | 5,893 | -4.3 | -22.7 | 08 | 4.9 | 30 | 5,514 | -24.9 | -31.9 | 26 | 15.1 | 31 | 5,883 | -7.9 | -26.9 | 07 | 1.5 | 30 | 5,889 | -9.4 | -28.6 | 29 | 11.6 | | | | | | | | | | | | | | | | | | | |
| 450 | 26 | 5,942 | -38.6 | -45.1 | 26 | 5.9 | 29 | 6,683 | -8.8 | -26.8 | 06 | 5.4 | 30 | 6,272 | -30.1 | -36.1 | 28 | 16.6 | 31 | 6,673 | -13.4 | -21.6 | 13 | 1.4 | 30 | 6,655 | -13.0 | -33.3 | 29 | 16.1 | | | | | | | | | | | | | | | | | | | |
| 400 | 26 | 6,743 | -44.0 | | 28 | 7.9 | 29 | 7,585 | -14.4 | -34.9 | 04 | 3.8 | 30 | 7,100 | -30.3 | -41.0 | 27 | 17.6 | 31 | 7,558 | -20.0 | -37.2 | 21 | 1.1 | 30 | 7,535 | -21.3 | -38.9 | 29 | 12.9 | | | | | | | | | | | | | | | | | | | |
| 350 | 26 | 7,632 | -48.8 | | 26 | 8.3 | 29 | 8,598 | -21.1 | -40.4 | 35 | 2.9 | 30 | 8,016 | -42.8 | -45.4 | 27 | 18.8 | 31 | 8,537 | -27.6 | -43.2 | 25 | 1.3 | 30 | 8,509 | -28.6 | -45.2 | 29 | 14.9 | | | | | | | | | | | | | | | | | | | |
| 300 | 26 | 8,633 | -52.4 | | 26 | 7.9 | 28 | 9,703 | -29.2 | -47.2 | 27 | 4.2 | 30 | 9,038 | -49.3 | | 28 | 21.7 | 31 | 9,622 | -36.4 | -49.7 | 25 | 3.0 | 30 | 9,591 | -37.3 | -52.1 | 29 | 17.7 | | | | | | | | | | | | | | | | | | | |
| 250 | 26 | 9,808 | -52.9 | | 27 | 7.2 | 28 | 10,979 | -39.4 | -55.9 | 25 | 7.0 | 30 | 10,219 | -54.3 | | 26 | 22.6 | 31 | 10,804 | -44.9 | | 25 | 6.3 | 30 | 10,825 | -46.6 | | 28 | 20.4 | | | | | | | | | | | | | | | | | | | |
| 200 | 26 | 11,249 | -52.7 | | 27 | 9.2 | 28 | 12,467 | -51.7 | | 25 | 8.2 | 30 | 11,645 | -54.9 | | 27 | 21.2 | 31 | 12,323 | -54.9 | | 24 | 13.3 | 30 | 12,274 | -55.8 | | 28 | 25.5 | | | | | | | | | | | | | | | | | | | |
| 150 | 26 | 12,123 | -51.9 | | 28 | 10.4 | 28 | 13,691 | -50.6 | | 25 | 8.0 | 30 | 12,900 | -55.0 | | 26 | 24.0 | 31 | 13,167 | -59.4 | | 24 | 14.1 | 30 | 13,118 | -58.6 | | 28 | 28.5 | | | | | | | | | | | | | | | | | | | |
| 100 | 26 | 13,113 | -51.5 | | 28 | 12.0 | 28 | 14,771 | -66.3 | | 27 | 8.3 | 30 | 13,483 | -55.2 | | 27 | 20.6 | 31 | 14,120 | -66.7 | | 24 | 15.0 | 30 | 14,074 | -63.3 | | 27 | 27.5 | | | | | | | | | | | | | | | | | | | |
| 125 | 26 | 14,296 | -51.9 | | 26 | 13.8 | 28 | 15,355 | -74.2 | | 28 | 6.0 | 30 | 14,645 | -55.9 | | 27 | 18.3 | 31 | 15,221 | -69.3 | | 23 | 12.4 | 30 | 15,183 | -67.8 | | 28 | 23.7 | | | | | | | | | | | | | | | | | | | |
| 100 | 26 | 15,741 | -52.7 | | 26 | 16.1 | 28 | 16,628 | -81.9 | | 01 | 4.3 | 30 | 16,060 | -57.6 | | 27 | 14.7 | 28 | 16,529 | -76.7 | | 22 | 4.7 | 36 | 16,506 | -72.7 | | 28 | 17.8 | | | | | | | | | | | | | | | | | | | |
| 80 | 25 | 17,183 | -52.9 | | 27 | 18.4 | 28 | 17,873 | -80.7 | | 07 | 9.2 | 30 | 17,464 | -58.8 | | 28 | 11.9 | 28 | 17,808 | -77.8 | | 13 | 2.7 | 30 | 17,807 | -74.6 | | 29 | 10.3 | | | | | | | | | | | | | | | | | | | |
| 60 | 25 | 18,064 | -53.4 | | 27 | 18.9 | 27 | 18,644 | -72.6 | | 08 | 9.1 | 30 | 18,303 | -59.0 | | 28 | 9.7 | 28 | 18,576 | -75.3 | | 09 | 3.0 | 30 | 18,587 | -72.6 | | 29 | 6.9 | | | | | | | | | | | | | | | | | | | |
| 40 | 25 | 19,034 | -54.4 | | 27 | 19.7 | 27 | 19,599 | -68.2 | | 07 | 13.3 | 30 | 19,270 | -59.1 | | 29 | 8.4 | 27 | 19,479 | -69.5 | | 08 | 3.1 | 30 | 19,502 | -68.1 | | 30 | 5.1 | | | | | | | | | | | | | | | | | | | |
| 20 | 25 | 20,202 | -54.9 | | 27 | 20.8 | 27 | 21,463 | -64.1 | | 06 | 21.0 | 30 | 20,927 | -58.6 | | 30 | 11.5 | 28 | 21,587 | -63.2 | | 07 | 2.0 | 30 | 21,600 | -61.6 | | 29 | 5.0 | | | | | | | | | | | | | | | | | | | |
| 0 | 25 | 21,627 | -55.7 | | 27 | 23.0 | 26 | 22,053 | -57.7 | | 09 | 26.2 | 28 | 22,809 | -59.0 | | 31 | 6.8 | 25 | 21,974 | -59.8 | | 03 | 2.1 | 22 | 22,009 | -57.7 | | 27 | 6.5 | | | | | | | | | | | | | | | | | | | |
| 0 | 25 | 23,447 | -57.2 | | 28 | 27.4 | 25 | 23,904 | -49.8 | | 09 | 16.8 | 28 | 23,620 | -57.9 | | 30 | 6.1 | 24 | 23,796 | -55.6 | | 04 | 2.2 | 26 | 23,841 | -54.0 | | 28 | 6.7 | | | | | | | | | | | | | | | | | | | |
| 0 | 25 | 24,599 | -58.0 | | 28 | 28.3 | 24 | 25,109 | -47.4 | | 10 | 2.2 | 27 | 24,777 | -57.6 | | 30 | 6.9 | 22 | 24,960 | -59.4 | | 10 | .8 | 25 | 25,015 | -52.9 | | 28 | 6.9 | | | | | | | | | | | | | | | | | | | |
| 0 | 25 | 26,002 | -58.7 | | 28 | 30.9 | 23 | 26,596 | -45.7 | | 27 | 9.8 | 26 | 26,185 | -57.5 | | 30 | 9.0 | 20 | 26,395 | -56.2 | | 27 | 1.7 | 24 | 26,458 | -51.8 | | 27 | 8.2 | | | | | | | | | | | | | | | | | | | |
| 15 | 19 | 27,807 | -59.8 | | 28 | 38.0 | 22 | 28,528 | -42.9 | | 27 | 19.6 | 23 | 28,001 | -57.5 | | 30 | 13.4 | 12 | 28,292 | -46.2 | | | | 23 | 28,353 | -46.4 | | 27 | 12.7 | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | 19 | 31.278 | -39.1 | | 1 | | 27 | 28.5 | 17 | 30,526 | -57.1 | | 30 | 12.9 | | | | | | 15 | 31,085 | -41.1 | | 27 | 24.1 | | | | | | | | | | | | | | | | | | | | |
| 5 | | | | | 11 | 33.693 | -35.9 | | | | | | 7 | 35,055 | -51.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Average monthly values

DECEMBER 1970

| Standard pressure
surface (mb) | * | NOME, ALASKA
1008 MB | | | | | NORTH PLATTE, NEBR.
915 MB | | | | | OAKLAND, CALIF.
1018 MB | | | | | OMAHA, NEBR.
967 MB | | | | | PAGO PAGO, AMERICAN SAMOA
1008 MB | | | | | | | |
|-----------------------------------|----|-------------------------|----------------|-----------|-----------|----------------|-------------------------------|----------------|-----------|-----------|----------------|----------------------------|----------------|-----------|-----------|----------------|------------------------|----------------|-----------|-----------|----------------|--------------------------------------|----------------|-----------|-----------|----------------|-------------------|-------------------|-------------------|
| | | No of observations | Dynamic height | Dew Point | Direction | Speed
Miles | No of observations | Dynamic height | Dew Point | Direction | Speed
Miles | No of observations | Dynamic height | Dew Point | Direction | Speed
Miles | No of observations | Dynamic height | Dew Point | Direction | Speed
Miles | No of observations | Dynamic height | Dew Point | Direction | Speed
Miles | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | Resultant
Wind | Resultant
Wind | Resultant
Wind |
| SURFACE | 31 | 5 | -14.3 | -19.9 | 02 | 1.6 | 847 | -8.4 | -11.7 | 31 | 1.2 | 31 | 6 | 7.6 | 5.8 | 14 | 1.6 | 31 | 403 | -5.1 | -8.9 | 32 | 4.3 | 31 | 5 | 27.7 | 24.0 | 02 | 2.6 |
| 1000 | 31 | 62 | | | 06 | 1.4 | 3 | | | | 31 | 156 | 8.4 | 5.2 | 17 | 1.3 | 31 | 139 | | | | 31 | 71 | 26.7 | 21.2 | 02 | 3.2 | | |
| 980 | 31 | 455 | -12.2 | -17.7 | 10 | 1.6 | 3 | 154 | | | 31 | 579 | 6.4 | 2.7 | 23 | 1.8 | 31 | 544 | -3.9 | -8.9 | 31 | 1.9 | 31 | 524 | 16.8 | 10.7 | 04 | 5.4 | |
| 960 | 31 | 888 | -12.8 | -19.0 | 13 | | 980 | | | | 31 | 1021 | 4.2 | -1.24 | 24 | 3.2 | 31 | 974 | -1.0 | -10.2 | 29 | 5.4 | 31 | 524 | 20.1 | 15.9 | 01 | 6.7 | |
| 940 | 31 | 1303 | -13.6 | -20.5 | 15 | 1.1 | 1.637 | -11.8 | -16.8 | 28 | 31 | 1485 | 2.2 | -5.2 | 25 | 4.7 | 31 | 1430 | | -11.4 | 28 | 1.7 | 31 | 1486 | 16.2 | 10.0 | 01 | 5.7 | |
| 920 | 31 | 1743 | -14.2 | -22.7 | 18 | 1.0 | 1.921 | -1.2 | -12.7 | 29 | 9.7 | 1.973 | 0 | -9.0 | 26 | 6.3 | 31 | 1914 | -1.9 | -13.9 | 28 | 10.5 | 31 | 2002 | 14.7 | 8.4 | 01 | 5.7 | |
| 900 | 31 | 2146 | -17.3 | -25.9 | 30 | 1.9 | 2.434 | -3.6 | -16.4 | 29 | 12.0 | 2.487 | -2.9 | -13.0 | 26 | 7.0 | 31 | 2425 | -4.2 | -17.1 | 28 | 12.0 | 31 | 2546 | 12.1 | 4.7 | 01 | 4.5 | |
| 880 | 31 | 2563 | -19.9 | -28.7 | 28 | 3.2 | 2.976 | -6.6 | -19.8 | 28 | 13.9 | 3.030 | -5.8 | -17.9 | 26 | 8.4 | 31 | 2966 | -6.9 | -20.5 | 28 | 13.8 | 31 | 3122 | 9.2 | 1.8 | 05 | 4.0 | |
| 860 | 31 | 3010 | -23.0 | -31.5 | 28 | 4.3 | 3.551 | -10.1 | -22.5 | 28 | 14.8 | 3.608 | -9.0 | -22.7 | 27 | 9.3 | 31 | 3541 | -8.8 | -24.2 | 28 | 15.7 | 31 | 3738 | 5.9 | -1.9 | 04 | 3.7 | |
| 840 | 31 | 3492 | -26.6 | -34.5 | 28 | 4.7 | 4.164 | -13.8 | -26.5 | 28 | 16.9 | 4.224 | -5.5 | -26.2 | 27 | 11.3 | 31 | 4154 | -13.4 | -28.1 | 28 | 17.5 | 31 | 4385 | 2.5 | -5.4 | 04 | 4.1 | |
| 820 | 31 | 3982 | -30.0 | -37.7 | 27 | 5.4 | 4.820 | -17.8 | -30.0 | 28 | 18.6 | 4.882 | -16.8 | -29.6 | 27 | 12.9 | 31 | 4811 | -18.0 | -32.1 | 27 | 20.2 | 31 | 5084 | -1.2 | -9.9 | 01 | 3.2 | |
| 800 | 31 | 4484 | -35.6 | -40.8 | 27 | 5.8 | 5.527 | -22.5 | -34.2 | 28 | 21.5 | 5.588 | -21.8 | -34.0 | 27 | 14.9 | 31 | 5516 | -22.8 | -36.1 | 27 | 22.4 | 31 | 5839 | -5.3 | -14.8 | 00 | 3.2 | |
| 780 | 31 | 5010 | -40.4 | -43.6 | 26 | 5.4 | 6.293 | -27.5 | -38.5 | 28 | 23.9 | 6.355 | -27.4 | -38.5 | 27 | 16.7 | 31 | 6281 | -28.0 | -40.0 | 27 | 25.8 | 31 | 6660 | -9.8 | -20.7 | 28 | 3.1 | |
| 760 | 31 | 5580 | -45.3 | -42.8 | 28 | 6.0 | 7.130 | -33.5 | -44.3 | 27 | 27.2 | 7.193 | -33.3 | -43.9 | 27 | 20.6 | 31 | 7116 | -34.0 | -44.5 | 27 | 29.6 | 31 | 7560 | -15.3 | -27.5 | 27 | 3.7 | |
| 740 | 31 | 7590 | -49.5 | | 28 | 8.3 | 8.058 | -39.9 | -47.2 | 27 | 32.1 | 8.120 | -40.1 | -46.9 | 27 | 25.4 | 31 | 8042 | -39.8 | -46.7 | 27 | 32.8 | 31 | 8559 | -21.9 | -34.6 | 27 | 5.5 | |
| 720 | 31 | 8587 | -53.8 | | 28 | 8.3 | 9.092 | -66.9 | | 27 | 37.3 | 9.354 | -66.0 | | 27 | 25.6 | 31 | 9079 | -64.3 | | 27 | 39.0 | 31 | 9672 | -30.2 | -43.3 | 24 | 0.5 | |
| 700 | 31 | 9752 | -55.9 | | 27 | 8.8 | 10.283 | -53.1 | | 27 | 39.1 | 10.345 | -53.4 | | 27 | 26.8 | 31 | 10273 | -52.8 | | 27 | 39.7 | 31 | 10942 | -50.6 | -52.2 | 24 | 8.7 | |
| 680 | 31 | 11176 | -54.9 | | 26 | 10.4 | 11.708 | -56.2 | | 27 | 37.3 | 11.767 | -57.0 | | 26 | 26.2 | 31 | 11701 | -56.0 | | 27 | 37.7 | 31 | 12420 | -53.3 | | 24 | 12.1 | |
| 660 | 31 | 12034 | -53.2 | | 26 | 11.2 | 12.556 | -56.9 | | 27 | 35.9 | 12.613 | -56.9 | | 26 | 24.8 | 31 | 12550 | -55.8 | | 27 | 35.8 | 31 | 13266 | -60.5 | | 23 | 15.1 | |
| 640 | 31 | 13029 | -53.0 | | 25 | 12.5 | 13.528 | -53.0 | | 27 | 30.2 | 13.588 | -57.6 | | 26 | 24.6 | 31 | 13391 | -56.3 | | 27 | 35.1 | 31 | 14099 | -60.0 | | 23 | 14.0 | |
| 620 | 31 | 141204 | -53.3 | | 25 | 15.6 | 14.678 | -58.5 | | 27 | 30.0 | 14.737 | -58.4 | | 26 | 21.9 | 31 | 14681 | -58.5 | | 28 | 28.2 | 31 | 15286 | -74.8 | | 22 | 13.3 | |
| 600 | 31 | 15642 | -52.9 | | 25 | 16.1 | 16.105 | -60.2 | | 27 | 23.6 | 16.132 | -60.6 | | 27 | 16.7 | 31 | 16078 | -60.3 | | 27 | 24.3 | 31 | 16564 | -79.7 | | 20 | 5.3 | |
| 580 | 31 | 17079 | -53.9 | | 25 | 18.2 | 17.460 | -62.6 | | 27 | 19.7 | 17.516 | -62.0 | | 27 | 11.2 | 31 | 17465 | -61.7 | | 27 | 20.0 | 31 | 17833 | -76.5 | | 11 | 7.5 | |
| 560 | 31 | 17932 | -53.5 | | 26 | 20.4 | 18.284 | -61.6 | | 27 | 16.8 | 18.362 | -61.8 | | 27 | 10.1 | 31 | 18292 | -61.6 | | 28 | 16.0 | 31 | 18611 | -71.8 | | 09 | 11.5 | |
| 540 | 31 | 18924 | -53.8 | | 26 | 23.2 | 19.297 | -62.1 | | 28 | 12.7 | 19.379 | -62.1 | | 28 | 12.7 | 31 | 19446 | -62.1 | | 28 | 19.3 | 31 | 19946 | -82.1 | | 09 | 14.0 | |
| 520 | 31 | 20094 | -54.1 | | 26 | 23.9 | 20.308 | -61.4 | | 28 | 10.4 | 20.227 | -60.8 | | 29 | 6.7 | 31 | 20375 | -61.7 | | 28 | 12.2 | 31 | 20643 | -62.7 | | 09 | 19.5 | |
| 500 | 31 | 21527 | -54.6 | | 26 | 26.6 | 21.755 | -61.4 | | 29 | 8.9 | 21.818 | -59.8 | | 31 | 4.8 | 27 | 21757 | -61.8 | | 29 | 10.5 | 31 | 22032 | -58.8 | | 09 | 22.2 | |
| 480 | 31 | 23368 | -55.0 | | 27 | 30.1 | 23.543 | -60.3 | | 29 | 10.1 | 23.619 | -59.8 | | 32 | 4.6 | 24 | 23547 | -60.4 | | 29 | 10.9 | 31 | 23860 | -53.8 | | 09 | 22.8 | |
| 460 | 31 | 24538 | -55.2 | | 27 | 32.4 | 24.681 | -59.8 | | 30 | 10.8 | 24.768 | -57.8 | | 34 | 3.9 | 23 | 24811 | -60.0 | | 29 | 11.8 | 29 | 25008 | -51.9 | | 09 | 21.2 | |
| 440 | 31 | 255962 | -55.2 | | 27 | 35.2 | 25.266 | -59.5 | | 30 | 12.2 | 26.180 | -56.6 | | 5 | 5.8 | 26 | 26088 | -58.7 | | 28 | 15.2 | 31 | 26488 | -58.7 | | 09 | 14.0 | |
| 420 | 31 | 27782 | -55.1 | | 27 | 37.9 | 27.899 | -59.5 | | 29 | 10.9 | 27.903 | -55.3 | | 29 | 14.9 | 27 | 27910 | -87.9 | | 28 | 15.2 | 25 | 28406 | -48.8 | | 08 | 10.7 | |
| 400 | 31 | 30373 | -57.1 | | 28 | 44.8 | 30.447 | -59.1 | | 15 | 30.642 | -52.9 | | 33 | 8.8 | 7 | 30546 | -54.9 | | | | 19 | 31.161 | -39.6 | | 09 | 7.6 | | |
| 712 | 32 | 3755 | -55.3 | | | | | | | 8 | 32.394 | -49.2 | | | | | | | | | | | | | | | | | |

| * PEDRIA, ILL.
992 MB | | | | | | | | | | * PITTSBURGH, PA.
973 MB | | | | | | | | | | * PONAPE, CAROLINE IS.
1003 MB | | | | | | | | | | * PORTLAND, MAINE
1012 MB | | | | | | | | | | * QUILLAYUE, WASH.
1003 MB | | | | | | | | | |
|--------------------------|----|-------|-------|-------|----|------|----|-------|-------|-----------------------------|----|------|----|-------|-------|-------|----|------|----|-----------------------------------|-------|-------|----|------|------|-------|-------|-------|------|------------------------------|--|--|--|--|--|--|--|--|--|-------------------------------|--|--|--|--|--|--|--|--|--|
| SURFACE | 31 | 200 | -2.6 | -4.8 | 28 | 1.0 | 31 | 359 | +1.0 | -4.8 | 26 | 2.0 | 31 | 39 | 28.3 | 24.2 | 07 | 3.7 | 31 | 20 | -8.9 | -13.3 | 34 | 2.6 | 31 | 58 | 3.6 | 1.8 | 16 | 1.6 | | | | | | | | | | | | | | | | | | | |
| 1000 | 31 | 236 | | | | | 31 | 153 | | | | | 31 | 63 | 27.8 | 22.2 | 07 | 4.1 | 31 | 110 | | | 35 | 3.3 | 31 | 78 | | | 1.1 | | | | | | | | | | | | | | | | | | | | |
| 950 | 31 | 344 | -2.2 | -6.0 | 28 | 4.7 | 31 | 542 | -1.3 | -5.6 | 26 | 4.0 | 31 | 518 | 24.3 | 19.1 | 08 | 8.5 | 31 | 510 | -7.2 | -11.7 | 35 | 3.4 | 31 | 495 | 2.0 | -5.9 | 17 | | | | | | | | | | | | | | | | | | | | |
| 900 | 31 | 544 | -1.6 | -6.7 | 29 | 9.5 | 31 | 742 | -2.1 | -7.3 | 27 | 8.0 | 31 | 790 | 20.8 | 15.6 | 08 | 10.3 | 31 | 632 | -8.1 | -13.1 | 36 | 3.5 | 31 | 918 | -2.6 | 7.9 | 7 | | | | | | | | | | | | | | | | | | | | |
| 850 | 31 | 1430 | -1.0 | -9.2 | 29 | 8.8 | 31 | 1435 | 0.0 | -10.6 | 27 | 11.0 | 31 | 1437 | 10.5 | 5.8 | 08 | 10.3 | 31 | 1375 | -8.8 | -14.0 | 30 | 6.7 | 31 | 1384 | -3.5 | -6.8 | 12 | | | | | | | | | | | | | | | | | | | | |
| 800 | 31 | 1911 | -2.8 | -11.1 | 28 | 11.0 | 31 | 1913 | -5.6 | -14.2 | 26 | 12.9 | 31 | 1999 | 15.8 | 6.1 | 08 | 8.2 | 31 | 1847 | -8.5 | -15.1 | 30 | 8.6 | 31 | 1862 | -5.6 | -9.2 | 10.3 | | | | | | | | | | | | | | | | | | | | |
| 750 | 31 | 2422 | -4.7 | -13.7 | 28 | 13.5 | 31 | 2417 | -7.2 | -17.1 | 28 | 14.6 | 31 | 2546 | 13.1 | 1.6 | 08 | 7.3 | 31 | 2346 | -10.1 | -17.2 | 29 | 11.2 | 31 | 2365 | -8.6 | -14.0 | 23 | | | | | | | | | | | | | | | | | | | | |
| 700 | 31 | 2962 | -7.2 | -18.3 | 28 | 15.6 | 31 | 2953 | -9.6 | -20.6 | 28 | 15.7 | 31 | 3123 | 9.9 | -3.1 | 08 | 6.5 | 31 | 2876 | -11.9 | -20.0 | 29 | 13.0 | 31 | 2897 | -12.0 | -19.4 | 24 | | | | | | | | | | | | | | | | | | | | |
| 650 | 31 | 3537 | -10.2 | -20.6 | 28 | 18.0 | 31 | 3522 | -12.3 | -23.5 | 28 | 18.4 | 31 | 3736 | 7.0 | -7.0 | 08 | 7.5 | 31 | 3441 | -14.6 | -21.8 | 29 | 14.5 | 31 | 3460 | -15.3 | -22.8 | 25 | | | | | | | | | | | | | | | | | | | | |
| 600 | 31 | 4190 | -13.6 | -23.8 | 28 | 20.5 | 31 | 4131 | -15.0 | -26.1 | 28 | 21.3 | 31 | 4390 | 3.3 | -10.8 | 08 | 8.4 | 31 | 4043 | -17.9 | -24.9 | 28 | 16.6 | 31 | 4061 | -18.9 | -28.0 | 16 | | | | | | | | | | | | | | | | | | | | |
| 550 | 31 | 4878 | -18.0 | -28.2 | 27 | 23.2 | 31 | 4778 | -19.1 | -29.7 | 28 | 24.3 | 31 | 5090 | 4.4 | -16.6 | 08 | 8.9 | 31 | 4632 | -21.1 | -29.1 | 28 | 18.8 | 31 | 4704 | -23.1 | -31.2 | 12 | | | | | | | | | | | | | | | | | | | | |
| 500 | 31 | 5511 | -21.8 | -31.2 | 27 | 25.8 | 31 | 5488 | -20.0 | -33.2 | 28 | 26.2 | 31 | 5807 | 4.4 | -22.0 | 08 | 9.5 | 31 | 5385 | -24.2 | -34.0 | 28 | 20.9 | 31 | 5495 | -28.0 | -36.0 | 26 | | | | | | | | | | | | | | | | | | | | |
| 450 | 31 | 6207 | -27.8 | -38.0 | 27 | 28.1 | 31 | 6253 | -28.0 | -37.4 | 28 | 33.7 | 31 | 6670 | -9.3 | -26.2 | 08 | 9.8 | 31 | 6139 | -31.3 | -38.5 | 28 | 21.8 | 31 | 6144 | -32.1 | -39.5 | 26 | | | | | | | | | | | | | | | | | | | | |
| 400 | 31 | 7113 | -33.7 | -42.4 | 27 | 33.7 | 31 | 7090 | -33.3 | -42.7 | 28 | 38.5 | 31 | 7571 | -14.9 | -32.7 | 07 | 9.3 | 31 | 6963 | -37.3 | -43.3 | 28 | 23.2 | 31 | 6961 | -39.3 | -43.8 | 26 | | | | | | | | | | | | | | | | | | | | |
| 350 | 31 | 8041 | -39.7 | -45.6 | 27 | 38.0 | 31 | 8019 | -39.2 | -46.2 | 28 | 42.1 | 31 | 8572 | -21.3 | -38.5 | 06 | 8.1 | 31 | 7877 | -43.0 | -45.1 | 28 | 26.6 | 31 | 7866 | -45.2 | | 15 | | | | | | | | | | | | | | | | | | | | |
| 300 | 31 | 9076 | -46.5 | | 27 | 43.0 | 31 | 9057 | -45.9 | | 28 | 45.1 | 31 | 9687 | -29.6 | -46.1 | 06 | 5.8 | 31 | 8900 | -48.7 | | 27 | 29.4 | 31 | 8879 | -51.2 | | 18 | | | | | | | | | | | | | | | | | | | | |
| 250 | 31 | 10270 | -52.5 | | 27 | 46.5 | 31 | 10254 | -52.0 | | 28 | 47.6 | 31 | 10981 | -29.8 | -54.4 | 06 | 3.6 | 31 | 10088 | -52.5 | | 27 | 30.5 | 31 | 10054 | -54.5 | | 17 | | | | | | | | | | | | | | | | | | | | |
| 200 | 31 | 11487 | -56.3 | | 27 | 49.5 | 31 | 11387 | -55.5 | | 28 | 50.6 | 31 | 12446 | -52.1 | | 07 | 2.8 | 31 | 11932 | -52.1 | | 27 | 31.6 | 31 | 11908 | -54.5 | | 16 | | | | | | | | | | | | | | | | | | | | |
| 150 | 31 | 12564 | -56.8 | | 27 | 42.6 | 31 | 12538 | -55.9 | | 28 | 42.6 | 31 | 13287 | -58.9 | | 06 | 4.1 | 31 | 12391 | -52.5 | | 27 | 26.3 | 31 | 12335 | -54.0 | | 18 | | | | | | | | | | | | | | | | | | | | |
| 100 | 31 | 13519 | -57.8 | | 27 | 38.3 | 31 | 13516 | -57.4 | | 28 | 37.8 | 31 | 14267 | -66.9 | | 06 | 4.3 | 31 | 13385 | -53.5 | | 27 | 23.5 | 31 | 13329 | -53.5 | | 19 | | | | | | | | | | | | | | | | | | | | |
| 125 | 31 | 14663 | -60.0 | | 27 | 33.1 | 31 | 14658 | -59.3 | | 28 | 33.4 | 31 | 15329 | -74.4 | | 06 | 6.2 | 30 | 14553 | -55.3 | | 27 | 21.5 | 29 | 14499 | -54.5 | | 14 | | | | | | | | | | | | | | | | | | | | |
| 100 | 31 | 16049 | -62.4 | | 28 | 28.5 | 29 | 16050 | -61.5 | | 28 | 28.0 | 31 | 16598 | -83.0 | | 07 | 9.8 | 30 | 15972 | -57.0 | | 27 | 19.8 | 27 | 15921 | -55.3 | | 12 | | | | | | | | | | | | | | | | | | | | |
| 80 | 31 | 17426 | -62.6 | | 26 | 20.9 | 27 | 17432 | -61.6 | | 28 | 21.0 | 31 | 17833 | -83.2 | | 09 | 13.4 | 29 | 17393 | -58.2 | | 27 | 15.9 | 26 | 17340 | -56.2 | | 11 | | | | | | | | | | | | | | | | | | | | |
| 70 | 30 | 18250 | -63.1 | | 26 | 17.5 | 26 | 18261 | -61.3 | | 28 | 17.9 | 29 | 18590 | -74.4 | | 09 | 11.3 | 27 | 18225 | -59.0 | | 27 | 16.6 | 26 | 18188 | -56.7 | | 10 | | | | | | | | | | | | | | | | | | | | |
| 60 | 30 | 19199 | -62.8 | | 26 | 15.6 | 29 | 19215 | -62.5 | | 28 | 15.6 | 29 | 19500 | -69.4 | | 09 | 6.2 | 26 | 19192 | -59.2 | | 27 | 15.0 | 25 | 19172 | -59.2 | | 9 | | | | | | | | | | | | | | | | | | | | |
| 50 | 30 | 20322 | -63.1 | | 26 | 12.3 | 25 | 20347 | -61.7 | | 28 | 14.6 | 28 | 20400 | -65.1 | | 09 | 21.2 | 27 | 20335 | -59.9 | | 28 | 12.1 | 25 | 20317 | -57.1 | | 10 | | | | | | | | | | | | | | | | | | | | |
| 40 | 29 | 21697 | -63.1 | | 28 | 11.8 | 24 | 21732 | -61.1 | | 28 | 12.9 | 26 | 21972 | -59.6 | | 09 | 25.1 | 26 | 21731 | -59.3 | | 27 | 17.1 | 23 | 21737 | -57.1 | | 9 | | | | | | | | | | | | | | | | | | | | |
| 30 | 29 | 23460 | -61.3 | | 28 | 13.1 | 22 | 23522 | -59.1 | | 28 | 10.6 | 24 | 23803 | -52.9 | | 09 | 17.8 | 25 | 23532 | -59.4 | | 27 | 12.0 | 22 | 23554 | -57.3 | | 10 | | | | | | | | | | | | | | | | | | | | |
| 25 | 29 | 24613 | -60.7 | | 28 | 12.2 | 22 | 24665 | -59.1 | | 28 | 11.2 | 23 | 24990 | -49.0 | | 10 | 3.6 | 22 | 24682 | -58.7 | | 27 | 14.2 | 22 | 24705 | -57.9 | | 9 | | | | | | | | | | | | | | | | | | | | |
| 20 | 29 | 26005 | -59.8 | | 28 | 15.6 | 21 | 26068 | -57.9 | | 28 | 13.5 | 23 | 26463 | -47.5 | | 26 | 8.8 | 20 | 26085 | -57.7 | | 27 | 17.4 | 19 | 26013 | -58.1 | | 13 | | | | | | | | | | | | | | | | | | | | |
| 15 | 28 | 27805 | -58.1 | | 28 | 12.8 | 21 | 27890 | -56.1 | | 27 | 13.6 | 22 | 28376 | -45.1 | | 27 | 18.6 | 20 | 27903 | -56.9 | | 27 | 20.3 | 18 | 27938 | -57.6 | | 13 | | | | | | | | | | | | | | | | | | | | |
| 10 | 28 | 30396 | -58.6 | | 28 | 10.0 | 25 | 30479 | -56.0 | | 27 | 12.9 | 16 | 31093 | -42.4 | | 27 | 23.9 | 18 | | | | 27 | 26.1 | 16 | 30519 | -58.2 | | 13 | | | | | | | | | | | | | | | | | | | | |
| 7 | 19 | 32716 | -48.4 | | 27 | 35.3 | 13 | 32760 | -47.6 | | 26 | 43.1 | 10 | 33538 | -37.3 | | 7 | | | 32788 | -53.1 | | 7 | 32 | 3621 | -59.9 | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | 10 | 34927 | -40.0 | | | | 9 | 35064 | -38.4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| RAPID CITY, S. DAK. | | | | | | | | | | ST. CLOUD, MINN. | | | | | | | | | | * ST. PAUL IS., ALASKA | | | | | | | | | | SALEM, ILL. | | | | | | | | | | SALEM, OREG. | | | | | | | | | |
|---------------------|----|-------|-------|-------|----|------|----|-------|-------|------------------|------|-------|----|--------|-------|-------|------|-------|----|------------------------|-------|-------|-------|------|------|--------|-------|-------|------|-------------|------|--|--|--|--|--|--|--|--|--------------|--|--|--|--|--|--|--|--|--|
| 901. ME | | | | | | | | | | 978 ME | | | | | | | | | | 1004 ME | | | | | | | | | | 996 ME | | | | | | | | | | 1007 ME | | | | | | | | | |
| SURFACE | 31 | 966 | -7.1 | -13.8 | 32 | 2.4 | 31 | 316 | -11.5 | -15.3 | 30 | 1.3 | 31 | 10 | -1.2 | -3.8 | 13 | 1.4 | 31 | 174 | 7 | -2.4 | 22 | 1.5 | 31 | 61 | 3.2 | 7 | 19 | 3.7 | | | | | | | | | | | | | | | | | | | |
| 1000 | 31 | 143 | | | | | 31 | 139 | | | | 31 | 40 | | | | 14 | 4.0 | 31 | 141 | | | 27 | 1.2 | 31 | 115 | | | 19 | 4.3 | | | | | | | | | | | | | | | | | | | |
| 950 | 31 | 549 | | | | | 31 | 534 | -11.6 | -14.5 | 29 | 2.4 | 31 | 448 | -3.8 | -6.6 | 17 | 2.3 | 31 | 555 | 2.1 | -4.8 | 26 | 6.3 | 31 | 531 | 2.9 | .5 | 20 | 8.7 | | | | | | | | | | | | | | | | | | | |
| 900 | 31 | 973 | | | | | 32 | 1.9 | 31 | 951 | -8.4 | -11.6 | 28 | 5.0 | 31 | 672 | -6.3 | -10.3 | 20 | 2.9 | 31 | 992 | 1.9 | -7.6 | 28 | 9.2 | 31 | 968 | 8 | -2.2 | 10.2 | | | | | | | | | | | | | | | | | | |
| 850 | 31 | 1427 | -1.4 | -11.2 | 30 | 5.4 | 31 | 1397 | -6.8 | -12.0 | 28 | 7.5 | 31 | 1318 | -8.1 | -13.1 | 20 | 3.4 | 31 | 1452 | | -7 | -10.8 | 28 | 11.2 | 31 | 1425 | -1.7 | -5.4 | 23 | 11.2 | | | | | | | | | | | | | | | | | | |
| 800 | 31 | 1909 | -3.3 | -12.6 | 30 | 7.6 | 31 | 1879 | -7.0 | -14.1 | 28 | 9.0 | 31 | 1787 | -10.3 | -15.5 | 22 | 4.6 | 31 | 1938 | -6 | -15.0 | 28 | 13.6 | 31 | 1906 | -6.4 | -9.4 | 28 | 11.4 | | | | | | | | | | | | | | | | | | | |
| 750 | 31 | 2417 | -1.5 | -12 | 29 | 9.9 | 31 | 2373 | -1.7 | -17.5 | 28 | 13.0 | 31 | 2227 | -10.7 | -19.1 | 25 | 5.2 | 31 | 2452 | -2 | -16.9 | 28 | 17.1 | 31 | 2412 | -6.8 | -13.4 | 24 | 12.1 | | | | | | | | | | | | | | | | | | | |
| 700 | 31 | 2953 | -9.2 | -19.4 | 29 | 12.2 | 31 | 2904 | -11.6 | -21.0 | 28 | 13.0 | 31 | 2806 | -15.3 | -21.5 | 24 | 6.3 | 31 | 2997 | -4.7 | -20.5 | 27 | 18.2 | 31 | 2948 | -9.8 | -16.5 | 25 | 12.6 | | | | | | | | | | | | | | | | | | | |
| 650 | 31 | 3523 | -12.5 | -22.8 | 29 | 13.9 | 31 | 3469 | -14.5 | -24.2 | 28 | 14.7 | 31 | 3363 | -18.6 | -24.0 | 24 | 8.3 | 31 | 3578 | -7.4 | -22.8 | 27 | 19.4 | 31 | 3516 | -13.4 | -19.6 | 25 | 13.6 | | | | | | | | | | | | | | | | | | | |
| 600 | 31 | 4130 | -16.1 | -26.1 | 29 | 15.4 | 31 | 4072 | -17.9 | -27.0 | 28 | 16.4 | 31 | 3955 | -22.1 | -28.0 | 24 | 10.2 | 31 | 4197 | -10.8 | -27.8 | 27 | 21.4 | 31 | 4121 | -17.1 | -23.6 | 25 | 14.5 | | | | | | | | | | | | | | | | | | | |
| 550 | 31 | 4780 | -20.7 | -30.3 | 28 | 17.1 | 31 | 4717 | -21.9 | -31.3 | 28 | 18.0 | 31 | 4590 | -26.0 | -31.9 | 24 | 11.7 | 31 | 4860 | -14.9 | -30.9 | 27 | 24.7 | 31 | 4768 | -21.4 | -27.5 | 26 | 15.2 | | | | | | | | | | | | | | | | | | | |
| 500 | 31 | 5478 | -25.5 | -34.1 | 28 | 18.9 | 31 | 5412 | -27.1 | -35.0 | 28 | 19.5 | 31 | 5274 | -30.4 | -35.9 | 24 | 13.7 | 31 | 5574 | -20.0 | -35.7 | 27 | 26.6 | 31 | 5464 | -26.4 | -33.0 | 26 | 16.1 | | | | | | | | | | | | | | | | | | | |
| 450 | 31 | 6239 | -30.2 | -38.4 | 28 | 20.6 | 31 | 6161 | -32.2 | -39.1 | 28 | 21.0 | 31 | 6026 | -35.3 | -38.6 | 24 | 15.6 | 31 | 6347 | -24.2 | -40.3 | 27 | 31.4 | 31 | 6241 | -31.4 | -36.8 | 26 | 16.7 | | | | | | | | | | | | | | | | | | | |
| 400 | 31 | 7052 | -37.3 | -43.8 | 28 | 24.0 | 31 | 6985 | -38.0 | -44.2 | 28 | 23.3 | 31 | 6827 | -41.6 | -41.3 | 24 | 17.2 | 31 | 7122 | -31.2 | -44.8 | 27 | 34.1 | 31 | 7041 | -37.4 | -40.9 | 26 | 18.2 | | | | | | | | | | | | | | | | | | | |
| 350 | 31 | 7965 | -43.8 | | 28 | 26.6 | 31 | 7895 | -44.1 | | 28 | 24.9 | 31 | 7728 | -46.4 | | 24 | 17.7 | 31 | 8129 | -37.8 | -47.2 | 27 | 38.9 | 31 | 7953 | -43.9 | -47.2 | 27 | 20.1 | | | | | | | | | | | | | | | | | | | |
| 300 | 31 | 8783 | -50.1 | | 28 | 29.7 | 31 | 8713 | -49.8 | | 28 | 27.0 | 31 | 8736 | -52.0 | | 24 | 19.9 | 31 | 9173 | -44.8 | | 27 | 46.0 | 31 | 8970 | -50.4 | | 28 | 22.6 | | | | | | | | | | | | | | | | | | | |
| 250 | 31 | 10161 | -54.6 | | 28 | 30.7 | 31 | 10094 | -53.7 | | 28 | 30.5 | 31 | 9909 | -54.4 | | 24 | 20.5 | 31 | 10373 | -52.0 | | 27 | 38.6 | 31 | 10145 | -55.1 | | 28 | 21.5 | | | | | | | | | | | | | | | | | | | |
| 200 | 31 | 11586 | -55.0 | | 27 | 30.5 | 31 | 11527 | -54.3 | | 28 | 31.6 | 31 | 11343 | -51.8 | | 25 | 18.2 | 31 | 11800 | -56.4 | | 28 | 42.2 | 31 | 11569 | -54.7 | | 28 | 18.6 | | | | | | | | | | | | | | | | | | | |
| 150 | 31 | 12439 | -55.1 | | 27 | 28.9 | 31 | 12383 | -52.9 | | 28 | 32.6 | 31 | 12207 | -52.5 | | 25 | 17.7 | 31 | 12646 | -57.4 | | 27 | 39.4 | 31 | 12418 | -54.6 | | 28 | 16.1 | | | | | | | | | | | | | | | | | | | |
| 100 | 31 | 13423 | -55.4 | | 27 | 29.8 | 31 | 13272 | -56.7 | | 30 | 28 | 31 | 13195 | -50.6 | | 25 | 17.2 | 31 | 13616 | -56.6 | | 27 | 33.3 | 31 | 13418 | -54.9 | | 28 | 17.2 | | | | | | | | | | | | | | | | | | | |
| 125 | 31 | 14582 | -57.3 | | 27 | 25.7 | 31 | 14537 | -55.8 | | 28 | 25.3 | 31 | 14384 | -50.6 | | 25 | 18.1 | 31 | 14733 | -61.4 | | 27 | 27.8 | 31 | 14581 | -55.8 | | 28 | 15.8 | | | | | | | | | | | | | | | | | | | |
| 100 | 28 | 15983 | -59.1 | | 27 | 20.9 | 31 | 15949 | -58.2 | | 28 | 23.0 | 31 | 15838 | -50.7 | | 25 | 18.1 | 31 | 16128 | -63.9 | | 28 | 23.5 | 29 | 16000 | -55.8 | | 28 | 13.8 | | | | | | | | | | | | | | | | | | | |
| 80 | 28 | 17381 | -60.3 | | 27 | 17.7 | 31 | 17352 | -58.6 | | 28 | 18.9 | 31 | 17289 | -51.5 | | 25 | 16.1 | 31 | 17491 | -64.6 | | 27 | 29.8 | 31 | 17474 | -58.2 | | 29 | 11.0 | | | | | | | | | | | | | | | | | | | |
| 70 | 28 | 18214 | -60.4 | | 27 | 15.4 | 31 | 18189 | -59.9 | | 28 | 17.2 | 31 | 18156 | -51.4 | | 25 | 16.1 | 31 | 18308 | -64.5 | | 28 | 14.2 | 29 | 18254 | -58.3 | | 29 | 9.6 | | | | | | | | | | | | | | | | | | | |
| 60 | 28 | 19174 | -61.1 | | 27 | 13.8 | 31 | 19150 | -60.4 | | 29 | 15.3 | 31 | 19157 | -51.4 | | 25 | 15.3 | 31 | 19250 | -64.5 | | 28 | 10.0 | 29 | 19225 | -58.3 | | 30 | 8.5 | | | | | | | | | | | | | | | | | | | |
| 50 | 28 | 20308 | -61.3 | | 27 | 11.4 | 31 | 20286 | -60.6 | | 29 | 14.1 | 31 | 20342 | -51.4 | | 25 | 16.6 | 31 | 20368 | -63.5 | | 28 | 9.4 | 30 | 20341 | -58.3 | | 30 | 7.0 | | | | | | | | | | | | | | | | | | | |
| 40 | 28 | 21693 | -61.6 | | 29 | 11.1 | 29 | 21677 | -60.8 | | 29 | 13.3 | 29 | 21792 | -51.9 | | 25 | 15.7 | 30 | 21924 | -64.5 | | 29 | 7.4 | 28 | 21778 | -58.3 | | 31 | 6.1 | | | | | | | | | | | | | | | | | | | |
| 30 | 25 | 23477 | -60.7 | | 30 | 10.6 | 26 | 23474 | -60.9 | | 30 | 12.9 | 29 | 23662 | -51.0 | | 26 | 17.4 | 29 | 23530 | -60.5 | | 29 | 6.0 | 27 | 23583 | -58.4 | | 33 | 7.6 | | | | | | | | | | | | | | | | | | | |
| 20 | 24 | 24614 | -60.9 | | 31 | 10.9 | 21 | 24616 | -60.9 | | 30 | 15.1 | 28 | 24849 | -50.7 | | 27 | 18.1 | 29 | 24668 | -59.4 | | 29 | 7.6 | 25 | 24734 | -58.2 | | 33 | 9.4 | | | | | | | | | | | | | | | | | | | |
| 10 | 24 | 25497 | -62.3 | | 31 | 12.9 | 20 | 26007 | -60.2 | | 30 | 15.4 | 27 | 26306 | -51.2 | | 28 | 20.6 | 28 | 26066 | -58.9 | | 29 | 9.9 | 22 | 26140 | -58.4 | | 33 | 10.5 | | | | | | | | | | | | | | | | | | | |
| 0 | 15 | 27821 | -61.8 | | 31 | 13.7 | 11 | 27839 | -59.4 | | 30 | 16.0 | 24 | 28169 | -51.8 | | 28 | 23.7 | 28 | 27080 | -56.7 | | 28 | 14.6 | 15 | 27955 | -58.6 | | 33 | 12.5 | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | 14 | 30.837 | -50.0 | | 28 | 25.7 | 27 | 30.480 | -52.9 | | 28 | 27.2 | 9 | 32.457 | -58.0 | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | 5 | 39.455 | -42.9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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RAWINSONDE DATA

Average monthly values

| SALT LAKE CITY, UTAH
872 MB | | | | | | | | | | | SAN DIEGO, CALIF.
1003 MB | | | | | | | | | | | SAN ANTONIO, TEX.
1015 MB | | | | | | | | | | | SAULT STE MARIE, MICH.
989 MB | | | | | | | | | | | SHERMANS, TEXAS
995 MB | | | | | | | | | | |
|-----------------------------------|--------------------|----------------|-------------|-----------|-----------|-------|------|--------------------|----------------|-------------|------------------------------|-----------|-------|-------|--------------------|----------------|-------------|-----------|-----------|-------|-------|------------------------------|----------------|-------------|-----------|-----------|--------|-------|--------------------|----------------|-------------|-----------|----------------------------------|--------|-------|--------------------|----------------|-------------|-----------|-----------|-------|--------|-------|---------------------------|--|----|------|--|--|--|--|--|--|--|
| Standard pressure
surface (mb) | No of observations | Dynamic height | Temperature | Dew Point | Direction | Speed | Wind | No of observations | Dynamic height | Temperature | Dew Point | Direction | Speed | Wind | No of observations | Dynamic height | Temperature | Dew Point | Direction | Speed | Wind | No of observations | Dynamic height | Temperature | Dew Point | Direction | Speed | Wind | No of observations | Dynamic height | Temperature | Dew Point | Direction | Speed | Wind | No of observations | Dynamic height | Temperature | Dew Point | Direction | Speed | Wind | | | | | | | | | | | | |
| SURFACE | 31 | 1,288 | -2.8 | -6.8 | 17 | 2.9 | | 31 | 124 | 8.5 | 6.6 | 34 | 1.0 | 31 | 23.9 | 19.9 | 10 | 2.6 | | 221 | -9.0 | -11.8 | 31 | 38 | -3 | -4.0 | 22 | 5.4 | | 31 | 38 | -3 | -4.0 | 22 | 5.4 | | 31 | 38 | -3 | -4.0 | 22 | 5.4 | | | | | | | | | | | | |
| 1000 | 31 | 187 | | | | | | 31 | 148 | | | | 31 | 137 | 23.8 | 19.9 | 25 | 5.5 | 31 | 221 | -9.0 | -11.8 | 31 | 38 | -3 | -4.0 | 22 | 5.4 | | 31 | 38 | -3 | -4.0 | 22 | 5.4 | | 31 | 38 | -3 | -4.0 | 22 | 5.4 | | | | | | | | | | | | |
| 950 | 31 | 602 | | | | | | 31 | 578 | 11.4 | | | 31 | 584 | 20.5 | 17.4 | 08 | 8.3 | 31 | 528 | -8.4 | -11.7 | 27 | 4.1 | 407 | -5.7 | -8.1 | 23 | 6.4 | | 31 | 407 | -5.7 | -8.1 | 23 | 6.4 | | 31 | 407 | -5.7 | -8.1 | 23 | 6.4 | | | | | | | | | | | |
| 900 | 31 | 1,036 | | | | | | 31 | 1,028 | | | | 31 | 1,050 | 17.3 | 13.8 | 08 | 9.0 | 31 | 588 | -8.4 | -11.7 | 27 | 4.1 | 407 | -5.7 | -8.1 | 23 | 6.4 | | 31 | 407 | -5.7 | -8.1 | 23 | 6.4 | | 31 | 407 | -5.7 | -8.1 | 23 | 6.4 | | | | | | | | | | | |
| 850 | 31 | 1,491 | -1.6 | -6.8 | 18 | 4.1 | | 31 | 1,501 | 7.5 | -7.3 | 27 | 3.1 | 31 | 1,536 | 14.3 | 9.7 | 07 | 1.1 | 31 | 1,390 | -9.6 | -13.5 | 29 | 6.1 | 1,748 | -11.3 | -16.8 | 27 | 9.5 | | 31 | 1,280 | -8.5 | -12.3 | 27 | 8.6 | | 31 | 1,280 | -8.5 | -12.3 | 27 | 8.6 | | | | | | | | | | |
| 800 | 31 | 1,974 | -5.0 | -9.5 | 20 | 5.5 | | 31 | 1,997 | 5.2 | -11.3 | 26 | 5.6 | 31 | 2,048 | 10.3 | 5.7 | 07 | 7.3 | 31 | 1,897 | -10.3 | -15.7 | 29 | 6.1 | 2,178 | -11.3 | -16.8 | 27 | 9.5 | | 31 | 1,974 | -5.0 | -9.5 | 20 | 5.5 | | 31 | 1,974 | -5.0 | -9.5 | 20 | 5.5 | | | | | | | | | | |
| 750 | 31 | 2,484 | -5.0 | -12.4 | 23 | 6.3 | | 31 | 2,522 | 3.0 | -16.3 | 26 | 7.2 | 31 | 2,587 | 10.1 | -2.5 | 08 | 6.0 | 31 | 2,354 | -11.7 | -17.8 | 28 | 7.9 | 2,241 | -15.1 | -21.4 | 23 | 10.4 | | 31 | 2,484 | -5.0 | -12.4 | 23 | 6.3 | | 31 | 2,484 | -5.0 | -12.4 | 23 | 6.3 | | | | | | | | | | |
| 700 | 31 | 3,023 | -8.4 | -15.3 | 26 | 8.6 | | 31 | 3,078 | | -18.1 | 26 | 9.3 | 31 | 3,159 | 7.2 | -7.4 | 08 | 4.5 | 31 | 2,880 | -14.4 | -20.7 | 29 | 9.0 | 2,760 | -17.9 | -25.6 | 23 | 11.2 | | 31 | 3,023 | -8.4 | -15.3 | 26 | 8.6 | | 31 | 3,023 | -8.4 | -15.3 | 26 | 8.6 | | | | | | | | | | |
| 650 | 31 | 3,595 | -11.5 | -18.7 | 26 | 11.4 | | 31 | 3,667 | -3.6 | -21.2 | 26 | 11.6 | 31 | 3,765 | 4.1 | -12.1 | 08 | 3.4 | 31 | 3,439 | -16.7 | -24.8 | 29 | 9.7 | 3,310 | -21.6 | -28.5 | 23 | 12.0 | | 31 | 3,595 | -11.5 | -18.7 | 26 | 11.4 | | 31 | 3,595 | -11.5 | -18.7 | 26 | 11.4 | | | | | | | | | | |
| 600 | 31 | 4,204 | -15.0 | -22.3 | 26 | 13.3 | | 31 | 4,298 | -7.5 | -26.2 | 25 | 14.3 | 31 | 4,411 | | -17.0 | 08 | 2.9 | 31 | 4,037 | -20.0 | -27.9 | 29 | 11.8 | 3,895 | -25.5 | -32.4 | 23 | 13.2 | | 31 | 4,204 | -15.0 | -22.3 | 26 | 13.3 | | 31 | 4,204 | -15.0 | -22.3 | 26 | 13.3 | | | | | | | | | | |
| 550 | 31 | 4,957 | -19.1 | -26.9 | 26 | 15.3 | | 31 | 5,067 | -11.1 | -29.7 | 25 | 17.3 | 31 | 5,105 | -3.5 | -20.4 | 08 | 2.1 | 31 | 4,627 | -24.8 | -32.2 | 29 | 12.5 | 4,522 | -30.5 | -36.4 | 23 | 14.3 | | 31 | 4,957 | -19.1 | -26.9 | 26 | 15.3 | | 31 | 4,957 | -19.1 | -26.9 | 26 | 15.3 | | | | | | | | | | |
| 500 | 31 | 5,560 | -23.8 | -31.3 | 26 | 18.2 | | 31 | 5,690 | -17.0 | -33.4 | 25 | 21.4 | 31 | 5,851 | -8.4 | -25.2 | 30 | 1.2 | 31 | 5,367 | -28.6 | -36.6 | 29 | 15.1 | 5,186 | -33.9 | -41.1 | 23 | 15.6 | | 31 | 5,560 | -23.8 | -31.3 | 26 | 18.2 | | 31 | 5,560 | -23.8 | -31.3 | 26 | 18.2 | | | | | | | | | | |
| 450 | 31 | 6,321 | -29.4 | -37.3 | 26 | 20.3 | | 31 | 6,473 | -21.7 | -36.0 | 25 | 25.0 | 31 | 6,601 | -13.6 | -30.8 | 30 | 2.7 | 31 | 6,114 | -33.6 | -39.4 | 28 | 17.7 | 5,927 | -38.5 | -43.0 | 24 | 17.6 | | 31 | 6,321 | -29.4 | -37.3 | 26 | 20.3 | | 31 | 6,321 | -29.4 | -37.3 | 26 | 20.3 | | | | | | | | | | |
| 400 | 31 | 7,152 | -35.1 | -42.7 | 26 | 23.2 | | 31 | 7,330 | -27.0 | -40.6 | 25 | 29.2 | 31 | 7,545 | -20.0 | -34.7 | 28 | 4.1 | 31 | 6,931 | -39.4 | -43.2 | 28 | 21.0 | 6,728 | -43.2 | -45.4 | 24 | 21.4 | | 31 | 7,152 | -35.1 | -42.7 | 26 | 23.2 | | 31 | 7,152 | -35.1 | -42.7 | 26 | 23.2 | | | | | | | | | | |
| 350 | 31 | 8,074 | -41.1 | -45.3 | 27 | 26.9 | | 31 | 8,281 | -34.3 | -45.8 | 25 | 33.9 | 31 | 8,524 | -27.5 | -42.1 | 28 | 6.4 | 31 | 7,836 | -45.6 | | 28 | 23.5 | 7,621 | -48.1 | | 23 | 18.9 | | 31 | 8,074 | -41.1 | -45.3 | 27 | 26.9 | | 31 | 8,074 | -41.1 | -45.3 | 27 | 26.9 | | | | | | | | | | |
| 300 | 31 | 9,023 | -48.2 | | | 28 | 30.6 | | 31 | 9,339 | -42.2 | | 28 | 37.7 | 31 | 9,612 | -35.5 | -49.9 | 28 | 9.6 | 31 | 8,847 | -51.0 | | 28 | 28.2 | 8,625 | -51.8 | | 23 | 18.2 | | 31 | 9,023 | -48.2 | | | 28 | 30.6 | | 31 | 9,023 | -48.2 | | | 28 | 30.6 | | | | | | | |
| 250 | 31 | 10,286 | -56.8 | | | 28 | 32.6 | | 31 | 10,547 | -51.4 | | 25 | 40.6 | 31 | 10,858 | -44.0 | | 28 | 15.4 | 31 | 10,021 | -58.9 | | 28 | 30.8 | 9,807 | -51.4 | | 23 | 18.5 | | 31 | 10,286 | -56.8 | | | 28 | 32.6 | | 31 | 10,286 | -56.8 | | | 28 | 32.6 | | | | | | | |
| 200 | 31 | 11,705 | -56.2 | | | 28 | 32.1 | | 31 | 11,969 | -59.5 | | 25 | 40.0 | 31 | 12,324 | -54.3 | | 28 | 22.1 | 31 | 11,451 | -53.8 | | 28 | 29.4 | 11,263 | -49.2 | | 23 | 17.9 | | 31 | 11,705 | -56.2 | | | 28 | 32.1 | | 31 | 11,705 | -56.2 | | | 28 | 32.1 | | | | | | | |
| 175 | 31 | 12,554 | -56.2 | | | 28 | 30.1 | | 31 | 12,801 | -61.0 | | 25 | 37.5 | 31 | 13,169 | -59.7 | | 28 | 22.8 | 31 | 12,310 | -53.7 | | 28 | 27.1 | 12,129 | -49.4 | | 23 | 18.8 | | 31 | 12,554 | -56.2 | | | 28 | 30.1 | | 31 | 12,554 | -56.2 | | | 28 | 30.1 | | | | | | | |
| 150 | 31 | 13,532 | -57.2 | | | 28 | 27.1 | | 31 | 13,758 | -61.2 | | 25 | 33.4 | 31 | 14,120 | -65.2 | | 29 | 20.0 | 31 | 13,300 | -54.0 | | 27 | 26.7 | 13,139 | -49.6 | | 23 | 19.6 | | 31 | 13,532 | -57.2 | | | 28 | 27.1 | | 31 | 13,532 | -57.2 | | | 28 | 27.1 | | | | | | | |
| 125 | 31 | 14,685 | -58.9 | | | 28 | 24.2 | | 31 | 14,886 | -63.0 | | 25 | 28.0 | 31 | 15,214 | -71.2 | | 30 | 15.2 | 31 | 14,467 | -55.3 | | 27 | 24.5 | 14,332 | -49.6 | | 23 | 19.2 | | 31 | 14,685 | -58.9 | | | 28 | 24.2 | | 31 | 14,685 | -58.9 | | | 28 | 24.2 | | | | | | | |
| 100 | 31 | 16,079 | -60.6 | | | 28 | 20.4 | | 31 | 16,251 | -65.4 | | 25 | 22.6 | 31 | 16,578 | -73.2 | | 31 | 8.2 | 31 | 15,886 | -57.1 | | 27 | 21.5 | 15,791 | -50.1 | | 23 | 19.0 | | 31 | 16,079 | -60.6 | | | 28 | 20.4 | | 31 | 16,079 | -60.6 | | | 28 | 20.4 | | | | | | | |
| 80 | 31 | 17,465 | -61.1 | | | 28 | 16.1 | | 31 | 17,697 | -64.8 | | 26 | 16.9 | 31 | 17,984 | -78.6 | | 01 | 4.4 | 31 | 17,294 | -58.4 | | 28 | 18.5 | 17,249 | -50.1 | | 23 | 18.9 | | 31 | 17,465 | -61.1 | | | 28 | 16.1 | | 31 | 17,465 | -61.1 | | | 28 | 16.1 | | | | | | | |
| 70 | 31 | 18,295 | -61.3 | | | 27 | 13.7 | | 31 | 18,421 | -65.2 | | 26 | 12.2 | 31 | 18,549 | -75.9 | | 03 | 3.8 | 31 | 18,121 | -59.2 | | 28 | 17.4 | 18,123 | -50.7 | | 23 | 18.8 | | 31 | 18,295 | -61.3 | | | 27 | 13.7 | | 31 | 18,295 | -61.3 | | | 27 | 13.7 | | | | | | | |
| 60 | 31 | 19,250 | -61.6 | | | 27 | 10.7 | | 31 | 19,357 | -64.7 | | 27 | 10.3 | 31 | 19,457 | -68.7 | | 06 | 3.0 | 31 | 19,087 | -59.6 | | 28 | 17.8 | 19,122 | -50.4 | | 23 | 18.4 | | 31 | 19,250 | -61.6 | | | 27 | 10.7 | | 31 | 19,250 | -61.6 | | | 27 | 10.7 | | | | | | | |
| 50 | 31 | 20,382 | -61.4 | | | 28 | 8.3 | | 31 | 20,475 | -62.9 | | 28 | 8.5 | 31 | 20,568 | -67.7 | | 08 | 4.0 | 31 | 20,224 | -60.8 | | 28 | 15.1 | 20,308 | -49.1 | | 24 | 16.0 | | 31 | 20,382 | -61.4 | | | 28 | 8.3 | | 31 | 20,382 | -61.4 | | | 28 | 8.3 | | | | | | | |
| 40 | 31 | 21,766 | -60.5 | | | 29 | 6.1 | | 31 | 21,853 | -61.5 | | 29 | 6.2 | 31 | 21,950 | -63.3 | | 09 | 5.4 | 31 | 21,611 | -61.1 | | 28 | 14.6 | 21,769 | -49.6 | | 24 | 14.4 | | 31 | 21,766 | -60.5 | | | 29 | 6.1 | | 31 | 21,766 | -60.5 | | | 29 | 6.1 | | | | | | | |
| 30 | 31 | 23,560 | -59.1 | | | 30 | 7.1 | | 31 | 23,650 | -58.8 | | 29 | 7.2 | 31 | 23,750 | -60.8 | | 10 | 5.8 | 31 | 23,397 | -61.4 | | 28 | 15.4 | 23,577 | -49.2 | | 24 | 15.3 | | 31 | 23,560 | -59.1 | | | 30 | 7.1 | | 31 | 23,560 | -59.1 | | | 30 | 7.1 | | | | | | | |
| 20 | 31 | 24,703 | -57.9 | | | 27 | 14.0 | | 31 | 24,737 | -58.7 | | 27 | 11.4 | 31 | 24,997 | -53.60 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

RAWINSONDE DATA

Average monthly values

DECEMBER 1970

| WASHINGTON DULLES INT., AP
1008 MB | | | | | | | | | | HAYCROSS, GA.
1014 MB | | | | | | | | | | WINNEMUKA, NEV.
869 MB | | | | | | | | | | HILLSBORO, AZ.
853 MB | | | | | | | | | | | |
|---------------------------------------|----------------|-------------|-----------|-----------|-------|--------|--------------------|----------------|-------------|--------------------------|-----------|-------|--------|--------------------|----------------|-------------|-----------|-----------|--------|---------------------------|--------------------|----------------|-------------|-----------|-----------|-------|--------|--------------------|----------------|--------------------------|-----------|-----------|-------|--------|--------------------|----------------|-------------|-----------|-----------|-------|--------|
| Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | | Resultant Wind | | | | | | | | | | | |
| No of observations | Dynamic height | Temperature | Dew Point | Direction | Speed | M.p.h. | No of observations | Dynamic height | Temperature | Dew Point | Direction | Speed | M.p.h. | No of observations | Dynamic height | Temperature | Dew Point | Direction | Speed | M.p.h. | No of observations | Dynamic height | Temperature | Dew Point | Direction | Speed | M.p.h. | No of observations | Dynamic height | Temperature | Dew Point | Direction | Speed | M.p.h. | No of observations | Dynamic height | Temperature | Dew Point | Direction | Speed | M.p.h. |
| 1000 31 | 141 | 2.8 | -2.2 | 29 | 2.6 | 31 | 85 | -9 | -4.8 | 27 | 2.0 | 31 | 44 | 7.5 | 4.9 | 27 | .8 | 31 | 1,312 | -2.6 | -5.2 | 19 | 1.8 | 31 | 1,487 | -4.5 | -9.2 | 18 | .9 | 31 | 1,487 | -4.5 | -9.2 | 18 | .9 | 31 | 1,487 | -4.5 | -9.2 | 18 | .9 |
| 950 31 | 558 | 2.7 | -4.6 | 30 | 3.7 | 31 | 148 | .5 | -5.6 | 29 | 6.2 | 31 | 589 | 11.4 | 2.2 | 26 | 4.1 | 31 | 1,033 | -1.3 | -6.8 | 20 | 3.2 | 31 | 1,511 | -7.8 | -14.4 | 24 | 4.6 | 31 | 1,511 | -7.8 | -14.4 | 24 | 4.6 | 31 | 1,511 | -7.8 | -14.4 | 24 | 4.6 |
| 900 31 | 995 | 1.7 | -7.5 | 29 | 7.0 | 31 | 993 | -9 | -6.9 | 29 | 9.2 | 31 | 1,040 | 10.3 | 7.25 | 6.5 | 31 | 1,033 | -1.3 | -6.8 | 20 | 3.2 | 31 | 1,511 | -7.8 | -14.4 | 24 | 4.6 | 31 | 1,511 | -7.8 | -14.4 | 24 | 4.6 | 31 | 1,511 | -7.8 | -14.4 | 24 | 4.6 | |
| 850 31 | 1,454 | 1.5 | -10.5 | 28 | 10.8 | 31 | 1,448 | -2.4 | -9.9 | 29 | 10.8 | 31 | 1,515 | 8.7 | -3.3 | 26 | 7.5 | 31 | 1,489 | -1.3 | -6.8 | 20 | 3.2 | 31 | 1,511 | -7.8 | -14.4 | 24 | 4.6 | 31 | 1,511 | -7.8 | -14.4 | 24 | 4.6 | 31 | 1,511 | -7.8 | -14.4 | 24 | 4.6 |
| 800 31 | 1,939 | -1.5 | -14.4 | 28 | 12.5 | 31 | 1,929 | -3.3 | -13.1 | 29 | 13.7 | 31 | 2,005 | -2 | -6.7 | 27 | 9.5 | 31 | 1,971 | -3.0 | -8.5 | 23 | 7.1 | 31 | 1,999 | 2.2 | -7.8 | 24 | 4.6 | 31 | 1,999 | 2.2 | -7.8 | 24 | 4.6 | 31 | 1,999 | 2.2 | -7.8 | 24 | 4.6 |
| 750 31 | 2,452 | -3.4 | -16.8 | 28 | 15.6 | 31 | 2,439 | -4.8 | -16.8 | 28 | 15.8 | 31 | 2,544 | 5.7 | -12.1 | 27 | 11.5 | 31 | 2,480 | -5.4 | -11.4 | 24 | 8.5 | 31 | 2,519 | .6 | -11.4 | 24 | 8.4 | 31 | 2,519 | .6 | -11.4 | 24 | 8.4 | 31 | 2,519 | .6 | -11.4 | 24 | 8.4 |
| 700 31 | 2,995 | -6.0 | -18.9 | 28 | 17.7 | 31 | 2,979 | -7.3 | -20.1 | 28 | 17.7 | 31 | 3,106 | 3.3 | -15.3 | 28 | 14.0 | 31 | 3,019 | -8.3 | -14.7 | 25 | 10.7 | 31 | 3,071 | -1.9 | -15.8 | 25 | 10.9 | 31 | 3,071 | -1.9 | -15.8 | 25 | 10.9 | 31 | 3,071 | -1.9 | -15.8 | 25 | 10.9 |
| 650 31 | 3,573 | -8.3 | -22.1 | 27 | 20.8 | 31 | 3,554 | -9.5 | -22.1 | 28 | 21.0 | 31 | 3,703 | .1 | -18.1 | 28 | 15.9 | 31 | 3,591 | -11.6 | -18.2 | 26 | 12.2 | 31 | 3,657 | -4.7 | -20.9 | 26 | 12.6 | 31 | 3,657 | -4.7 | -20.9 | 26 | 12.6 | 31 | 3,657 | -4.7 | -20.9 | 26 | 12.6 |
| 600 31 | 4,190 | -11.5 | -25.7 | 27 | 23.7 | 31 | 4,169 | -12.6 | -24.4 | 28 | 24.0 | 31 | 4,340 | -3.5 | -22.1 | 27 | 17.6 | 31 | 4,200 | -15.3 | -22.8 | 26 | 13.5 | 31 | 4,283 | -8.1 | -23.9 | 26 | 14.5 | 31 | 4,283 | -8.1 | -23.9 | 26 | 14.5 | 31 | 4,283 | -8.1 | -23.9 | 26 | 14.5 |
| 550 31 | 4,818 | -15.3 | -29.5 | 28 | 26.0 | 31 | 4,798 | -16.5 | -27.8 | 28 | 27.0 | 31 | 5,023 | -7.7 | -25.0 | 28 | 20.0 | 31 | 4,882 | -19.1 | -27.4 | 26 | 14.8 | 31 | 4,953 | -12.3 | -28.0 | 26 | 17.2 | 31 | 4,953 | -12.3 | -28.0 | 26 | 17.2 | 31 | 4,953 | -12.3 | -28.0 | 26 | 17.2 |
| 500 31 | 5,565 | -20.3 | -34.0 | 28 | 28.9 | 31 | 5,539 | -20.8 | -33.0 | 28 | 31.7 | 31 | 5,757 | -12.6 | -28.8 | 27 | 22.5 | 31 | 5,555 | -23.9 | -32.6 | 26 | 15.9 | 31 | 5,675 | -17.3 | -30.3 | 26 | 20.0 | 31 | 5,675 | -17.3 | -30.3 | 26 | 20.0 | 31 | 5,675 | -17.3 | -30.3 | 26 | 20.0 |
| 450 31 | 6,338 | -25.4 | -36.5 | 28 | 31.3 | 31 | 6,310 | -26.0 | -36.8 | 28 | 34.5 | 31 | 6,553 | -17.9 | -32.4 | 28 | 25.2 | 31 | 6,316 | -29.3 | -38.2 | 26 | 16.4 | 31 | 6,456 | -22.7 | -34.5 | 26 | 23.9 | 31 | 6,456 | -22.7 | -34.5 | 26 | 23.9 | 31 | 6,456 | -22.7 | -34.5 | 26 | 23.9 |
| 400 31 | 7,183 | -31.0 | -39.8 | 28 | 34.8 | 31 | 7,152 | -32.1 | -41.4 | 28 | 37.8 | 31 | 7,423 | -24.6 | -37.8 | 27 | 27.2 | 31 | 7,147 | -35.7 | -43.6 | 26 | 16.6 | 31 | 7,309 | -28.8 | -38.8 | 26 | 29.7 | 31 | 7,309 | -28.8 | -38.8 | 26 | 29.7 | 31 | 7,309 | -28.8 | -38.8 | 26 | 29.7 |
| 350 31 | 8,120 | -37.6 | -43.8 | 28 | 38.0 | 31 | 8,086 | -38.1 | -43.4 | 28 | 40.5 | 31 | 8,384 | -31.9 | -44.0 | 27 | 29.5 | 31 | 8,065 | -42.6 | -45.5 | 26 | 21.5 | 31 | 8,255 | -35.7 | -43.9 | 26 | 33.9 | 31 | 8,255 | -35.7 | -43.9 | 26 | 33.9 | 31 | 8,255 | -35.7 | -43.9 | 26 | 33.9 |
| 300 31 | 9,184 | -44.7 | | 28 | 39.3 | 31 | 9,129 | -44.9 | | 28 | 43.8 | 31 | 9,451 | -40.3 | -50.5 | 28 | 32.4 | 31 | 9,087 | -49.2 | | 26 | 22.3 | 31 | 9,306 | -43.5 | | 26 | 38.6 | 31 | 9,306 | -43.5 | | 26 | 38.6 | 31 | 9,306 | -43.5 | | 26 | 38.6 |
| 250 31 | 10,365 | -52.1 | | 28 | 42.7 | 31 | 10,329 | -52.1 | | 28 | 48.1 | 31 | 10,689 | -48.8 | | 28 | 35.5 | 31 | 10,247 | -54.9 | | 26 | 23.7 | 31 | 10,509 | -52.3 | | 26 | 43.8 | 31 | 10,509 | -52.3 | | 26 | 43.8 | 31 | 10,509 | -52.3 | | 26 | 43.8 |
| 200 31 | 11,793 | -56.2 | | 28 | 41.3 | 31 | 11,757 | -56.4 | | 28 | 45.9 | 31 | 12,101 | -57.6 | | 28 | 38.5 | 29 | 11,685 | -56.4 | | 26 | 23.1 | 31 | 11,928 | -59.2 | | 26 | 44.7 | 31 | 11,928 | -59.2 | | 26 | 44.7 | 31 | 11,928 | -59.2 | | 26 | 44.7 |
| 175 30 | 12,640 | -56.9 | | 28 | 40.6 | 31 | 12,604 | -57.2 | | 28 | 43.2 | 30 | 12,944 | -59.9 | | 28 | 38.0 | 28 | 12,524 | -56.1 | | 26 | 23.9 | 31 | 12,763 | -59.9 | | 26 | 40.5 | 31 | 12,763 | -59.9 | | 26 | 40.5 | 31 | 12,763 | -59.9 | | 26 | 40.5 |
| 150 30 | 13,614 | -58.2 | | 28 | 35.4 | 31 | 13,578 | -57.8 | | 28 | 38.5 | 29 | 13,902 | -62.2 | | 28 | 36.7 | 28 | 13,505 | -56.1 | | 26 | 22.9 | 31 | 13,725 | -60.5 | | 26 | 34.9 | 31 | 13,725 | -60.5 | | 26 | 34.9 | 31 | 13,725 | -60.5 | | 26 | 34.9 |
| 125 30 | 14,756 | -60.5 | | 28 | 30.8 | 30 | 14,721 | -59.4 | | 28 | 33.0 | 29 | 15,020 | -65.5 | | 28 | 33.0 | 28 | 14,661 | -57.5 | | 26 | 20.3 | 31 | 14,857 | -62.6 | | 26 | 29.1 | 31 | 14,857 | -62.6 | | 26 | 29.1 | 31 | 14,857 | -62.6 | | 26 | 29.1 |
| 100 30 | 16,137 | -63.3 | | 28 | 27.6 | 30 | 16,112 | -61.7 | | 28 | 30.3 | 29 | 16,385 | -69.0 | | 28 | 27.1 | 28 | 16,086 | -59.1 | | 26 | 16.7 | 31 | 16,224 | -65.3 | | 26 | 25.6 | 31 | 16,224 | -65.3 | | 26 | 25.6 | 31 | 16,224 | -65.3 | | 26 | 25.6 |
| 80 29 | 17,516 | -64.2 | | 28 | 22.5 | 30 | 17,489 | -63.0 | | 28 | 22.8 | 29 | 17,692 | -71.0 | | 28 | 20.7 | 27 | 17,463 | -60.3 | | 26 | 12.5 | 31 | 17,579 | -65.8 | | 26 | 18.1 | 31 | 17,579 | -65.8 | | 26 | 18.1 | 31 | 17,579 | -65.8 | | 26 | 18.1 |
| 70 29 | 18,132 | -63.8 | | 28 | 19.3 | 30 | 18,311 | -62.8 | | 28 | 20.3 | 29 | 18,484 | -70.2 | | 28 | 16.5 | 26 | 18,297 | -60.9 | | 26 | 11.3 | 31 | 18,391 | -65.6 | | 26 | 15.6 | 31 | 18,391 | -65.6 | | 26 | 15.6 | 31 | 18,391 | -65.6 | | 26 | 15.6 |
| 60 29 | 19,280 | -62.8 | | 28 | 14.6 | 30 | 19,262 | -62.3 | | 28 | 16.6 | 29 | 19,406 | -67.4 | | 28 | 12.7 | 24 | 19,250 | -60.8 | | 28 | 9.3 | 30 | 19,331 | -64.9 | | 27 | 11.8 | 30 | 19,331 | -64.9 | | 27 | 11.8 | 30 | 19,331 | -64.9 | | 27 | 11.8 |
| 50 29 | 20,405 | -62.0 | | 28 | 12.6 | 30 | 20,390 | -61.8 | | 28 | 12.7 | 29 | 20,517 | -63.1 | | 28 | 10.3 | 22 | 20,387 | -60.4 | | 29 | 7.9 | 30 | 20,446 | -63.6 | | 27 | 8.8 | 30 | 20,446 | -63.6 | | 27 | 8.8 | 30 | 20,446 | -63.6 | | 27 | 8.8 |
| 40 29 | 21,788 | -60.8 | | 28 | 12.8 | 28 | 21,773 | -61.0 | | 28 | 10.8 | 28 | 21,900 | -59.5 | | 27 | 11.8 | 22 | 21,779 | -60.2 | | 31 | 6.2 | 28 | 21,814 | -62.1 | | 28 | 8.0 | 28 | 21,814 | -62.1 | | 28 | 8.0 | 28 | 21,814 | -62.1 | | 28 | 8.0 |
| 30 29 | 23,580 | -58.6 | | 27 | 12.5 | 27 | 23,573 | -58.5 | | 27 | 14.7 | 27 | 23,715 | -55.6 | | 27 | 11.1 | 13 | 23,618 | -58.2 | | 33 | 5.6 | 26 | 23,603 | -59.7 | | 28 | 6.6 | 26 | 23,603 | -59.7 | | 28 | 6.6 | 26 | 23,603 | -59.7 | | 28 | 6.6 |
| 25 28 | 24,731 | -57.8 | | 27 | 15.0 | 25 | 24,721 | -58.0 | | 27 | 17.3 | 25 | 24,878 | -55.0 | | 27 | 16.1 | 11 | 24,753 | -58.2 | | 34 | 8.0 | 26 | 24,744 | -58.6 | | 28 | 6.8 | 26 | 24,744 | -58.6 | | 28 | 6.8 | 26 | 24,744 | -58.6 | | 28 | 6.8 |
| 20 27 | 26,139 | -56.1 | | 27 | 16.9 | 23 | 26,127 | -57.4 | | 27 | 17.3 | 21 | 26,309 | -53.7 | | 27 | 17.9 | 9 | 26,170 | -57.1 | | 27 | 19.6 | 6 | 26,062 | -55.0 | | 29 | 8.1 | 22 | 26,156 | -57.7 | | 29 | 8.1 | 22 | 26,156 | -57.7 | | 29 | 8.1 |
| 15 25 | 27,980 | -54.1 | | 26 | 19.4 | 20 | 27,961 | -55.0 | | 27 | 21.0 | 20 | 28,166 | -51.9 | | 27 | 19.6 | 6 | 28,062 | -55.0 | | 27 | 24.7 | | | | | 14 | 27,974 | -56.7 | | 29 | 9.5 | 29 | 27,974 | -56.7 | | 29 | 9.5 | | |
| 10 29 | 30,603 | -49.2 | | 26 | 32.2 | 9 | 30,571 | -53.0 | | 27 | 21.0 | 14 | 30,839 | -43.3 | | 27 | 24.7 | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 18 | 32,952 | -41.6 | | 26 | 41.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 5 | 35,369 | -29.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Note: All observations were made using G. C. T. Pressures shown are in tenths of mb. No corrections were made for the effects of pressure on the height of the floors of the instrument shelters used for rawinsonde purposes. "Number of observations" refers to those of dynamic height only. Although the number of temperature observations at any given pressure surface is usually the same as for height, it is possible for temperature to be missing for one or more pressure surfaces of some observations. Dew Point averages are limited to those observations with temperatures warmer than -40°C. Observations of wind speed and direction are sometimes lost due to limiting angles, i.e., elevation angles less than 6° above the horizon, or any obstruction above the horizon.

SOLAR RADIATION INTENSITIES

Tabulated in langleys per minute on a surface normal to the direction of the sun.

TABLE 107

| Date | Sun's zenith distance | | | | | | | | | |
|----------------------|-----------------------|-------|-------|-------|------|-------|-------|-------|-------|--|
| | A M | | | | | P M | | | | |
| | 78.7° | 75.7° | 70.7° | 60.0° | * | 60.0° | 70.7° | 75.7° | 78.7° | |
| ALBUQUERQUE, N. MEX. | | | | | | | | | | |
| | Air mass | | | | | | | | | |
| | 4.19 | 3.35 | 2.71 | 1.67 | * | 1.67 | 2.71 | 3.35 | 4.19 | |
| Dec. 1----- | 1.11 | 1.16 | 1.27 | 1.41 | 1.43 | 1.41 | 1.32 | 1.21 | 1.08 | |
| 3----- | 1.05 | 1.17 | 1.30 | --- | --- | --- | --- | --- | --- | |
| 5----- | 1.03 | 1.19 | 1.31 | 1.42 | 1.42 | 1.37 | 1.25 | 1.12 | 1.01 | |
| 7----- | --- | --- | --- | --- | 1.42 | --- | --- | --- | --- | |
| 9----- | 1.03 | 1.14 | 1.22 | 1.37 | --- | --- | --- | --- | --- | |
| 11----- | 1.04 | 1.14 | 1.26 | 1.37 | 1.43 | 1.41 | 1.24 | 1.14 | 1.02 | |
| 12----- | 1.08 | 1.17 | --- | --- | 1.43 | 1.40 | 1.25 | 1.12 | 1.03 | |
| 13----- | 1.01 | 1.12 | 1.21 | 1.36 | 1.37 | --- | --- | --- | --- | |
| 14----- | --- | 1.09 | 1.18 | 1.34 | 1.33 | --- | --- | --- | --- | |
| 15----- | --- | --- | --- | 1.39 | 1.41 | 1.41 | 1.25 | 1.15 | 1.06 | |
| 17----- | --- | --- | --- | --- | --- | 1.21 | 1.13 | 1.03 | --- | |
| 18----- | --- | --- | --- | --- | --- | 1.36 | 1.23 | 1.17 | 1.08 | |
| 20----- | --- | --- | --- | 1.36 | 1.38 | 1.35 | --- | --- | --- | |
| 21----- | --- | 1.14 | --- | --- | --- | --- | --- | --- | --- | |
| 22----- | --- | --- | --- | --- | --- | --- | 1.17 | 1.09 | --- | |
| 23----- | --- | 1.12 | 1.24 | 1.41 | 1.40 | 1.41 | 1.25 | 1.16 | 1.05 | |
| 25----- | 1.07 | 1.16 | 1.28 | --- | --- | 1.39 | --- | --- | --- | |
| 29----- | 1.09 | 1.19 | 1.30 | --- | --- | --- | --- | --- | --- | |
| 30----- | 1.06 | 1.15 | 1.26 | 1.37 | 1.41 | 1.40 | 1.24 | 1.13 | 1.04 | |
| Average | 1.06 | 1.15 | 1.26 | 1.38 | 1.40 | 1.39 | 1.25 | 1.15 | 1.05 | |

| | Sun's zenith distance | | | | | | | | | |
|--------------|-----------------------|--------|--------|-------|--------|-------|--------|--------|--------|--|
| | A M | | | | | P M | | | | |
| | 78.7° | 75.7° | 70.7° | 60.0° | * | 60.0° | 70.7° | 75.7° | 78.7° | |
| OMAHA, NEBR. | | | | | | | | | | |
| | Air mass | | | | | | | | | |
| | 4.78 | 3.82 | 2.87 | 1.91 | * | 1.91 | 2.87 | 3.82 | 4.78 | |
| Dec. 1----- | 0.96 | 1.05 | 1.20 | --- | 1.30 | --- | HS1.18 | HS1.04 | HS0.96 | |
| 3----- | --- | 1.05 | 1.16 | --- | 1.11 | --- | D .92 | D .85 | D .76 | |
| 5----- | 0.98 | 1.05 | 1.10 | --- | 1.15 | --- | --- | --- | --- | |
| 7----- | HS .98 | HS1.10 | HS1.18 | --- | HS1.30 | --- | 1.18 | --- | .94 | |
| 9----- | .81 | --- | --- | --- | --- | --- | --- | --- | --- | |
| 13----- | HS1.02 | 1.12 | 1.22 | --- | 1.32 | --- | 1.20 | 1.05 | 1.00 | |
| 14----- | 1.02 | 1.11 | 1.23 | --- | HS1.23 | --- | --- | --- | --- | |
| 23----- | .80 | 1.04 | 1.14 | --- | HS1.23 | --- | HS1.15 | HS .99 | HS .81 | |
| 24----- | .93 | 1.01 | 1.13 | --- | 1.22 | --- | --- | --- | --- | |
| 25----- | 1.04 | 1.14 | 1.27 | --- | 1.37 | --- | HS1.19 | HS1.10 | HS .98 | |
| 26----- | 1.02 | 1.12 | 1.22 | --- | 1.31 | --- | HS1.18 | HS1.02 | HS .86 | |
| 28----- | HS .94 | HS1.01 | --- | --- | HS1.14 | --- | HS1.00 | HS .81 | --- | |
| 29----- | HS .86 | HS .92 | HS1.04 | --- | HS1.18 | --- | HS1.06 | --- | --- | |
| Average | 0.95 | 1.05 | 1.16 | --- | 1.24 | --- | 1.12 | 0.98 | 0.90 | |

Langley is the unit used to denote one gram calorie per square centimeter. An explanation of the formula used in computing the air mass values for each station listed above appears

| Date | Sun's zenith distance | | | | | | | | | |
|---------------|-----------------------|-------|-------|-------|------|-------|-------|-------|-------|--|
| | A M | | | | | P M | | | | |
| | 78.7° | 75.7° | 70.7° | 60.0° | * | 60.0° | 70.7° | 75.7° | 78.7° | |
| TUCSON, ARIZ. | | | | | | | | | | |
| | Air mass | | | | | | | | | |
| | 4.36 | 3.63 | 2.74 | 1.83 | * | 1.83 | 2.74 | 3.63 | 4.36 | |
| Dec. 1----- | 0.92 | 1.03 | 1.16 | 1.32 | 1.33 | 1.23 | 1.13 | 0.99 | .87 | |
| 3----- | --- | --- | --- | 1.26 | 1.34 | 1.29 | --- | --- | --- | |
| 5----- | --- | .98 | --- | 1.26 | 1.33 | 1.22 | 1.06 | --- | .80 | |
| 7----- | .93 | 1.00 | 1.14 | 1.33 | 1.36 | 1.28 | 1.12 | .95 | .85 | |
| 9----- | --- | 1.01 | 1.13 | 1.27 | 1.32 | 1.26 | 1.05 | .84 | .75 | |
| 11----- | .82 | .94 | 1.04 | 1.18 | 1.22 | --- | --- | --- | --- | |
| 13----- | .84 | .94 | 1.03 | 1.24 | 1.32 | --- | --- | 1.00 | .81 | |
| 15----- | .79 | .89 | 1.01 | 1.20 | 1.27 | 1.23 | 1.09 | .97 | .87 | |
| 17----- | .98 | 1.06 | 1.12 | 1.34 | 1.39 | 1.34 | 1.16 | 1.03 | .92 | |
| 19----- | 1.02 | 1.11 | 1.22 | 1.36 | 1.39 | 1.35 | 1.14 | 1.00 | .89 | |
| 21----- | .87 | .97 | 1.09 | 1.28 | 1.28 | 1.27 | 1.05 | .96 | .85 | |
| 23----- | --- | --- | --- | 1.20 | 1.27 | 1.29 | 1.10 | .98 | .87 | |
| 25----- | .95 | 1.05 | 1.18 | 1.32 | 1.31 | 1.26 | 1.11 | .97 | .87 | |
| 27----- | .97 | 1.07 | 1.20 | 1.34 | 1.33 | 1.29 | 1.04 | 1.01 | .95 | |
| 29----- | --- | --- | --- | --- | 1.34 | 1.24 | 1.03 | .91 | .85 | |
| 31----- | --- | --- | 1.19 | 1.30 | 1.35 | 1.26 | --- | --- | --- | |
| Average | 0.90 | 1.01 | 1.16 | --- | 1.27 | --- | 1.17 | 1.05 | 0.90 | |

| | Sun's zenith distance | | | | | | | | | |
|---------------|-----------------------|---------|---------|-------|---------|-------|---------|---------|---------|--|
| | A M | | | | | P M | | | | |
| | 78.7° | 75.7° | 70.7° | 60.0° | * | 60.0° | 70.7° | 75.7° | 78.7° | |
| MADISON, WIS. | | | | | | | | | | |
| | Air mass | | | | | | | | | |
| | 4.69 | 3.75 | 2.81 | 1.88 | * | 1.88 | 2.81 | 3.75 | 4.69 | |
| Dec. 26----- | \$ 1.00 | \$ 1.06 | \$ 1.19 | --- | \$ 1.32 | --- | --- | --- | --- | |
| 6----- | --- | --- | \$ 1.22 | --- | --- | --- | \$ 1.20 | \$ 1.16 | \$ 0.96 | |
| 14----- | \$.86 | \$ 1.00 | --- | --- | \$ 1.23 | --- | \$ 1.18 | \$ 1.06 | \$.95 | |
| 23----- | --- | --- | --- | --- | \$ 1.20 | --- | \$ 1.19 | --- | \$.95 | |
| 27----- | --- | --- | \$ 1.13 | --- | \$ 1.24 | --- | \$ 1.16 | \$ 1.03 | \$.93 | |
| 28----- | \$.84 | \$.96 | \$ 1.10 | --- | \$ 1.18 | --- | \$ 1.10 | \$.96 | \$.85 | |
| Average | 0.90 | 1.01 | 1.16 | --- | 1.27 | --- | 1.17 | 1.05 | 0.90 | |

D Dust
 HS Slight haze
 HM Moderate haze
 \$ Slight haze - indeterminate
 * Values corresponding to true solar noon

in the February 1957 issue, Vol. 8, No. 2, page 63, of this publication.

SOLAR RADIATION TOTALS

Daily totals and monthly averages of solar radiation (direct and diffuse) received on a horizontal surface, tabulated in langley's.

[illegible]

Note. --Langley is the unit used to denote one gram calorie per square centimeter.

Values with an asterisk are interpolated.

U Indicates Urban sites.

The solar radiation data in this table form the basis for the analyses in Charts VII. A. and B. of this publication. The analyses include adjustments required to bring station records to approximately the same level of calibration.

SOLAR RADIATION TOTALS

Daily totals and monthly averages of solar radiation (direct and diffuse) received on a horizontal surface, tabulated in langley's.

DECEMBER 1970

| Station | Day of month | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Avg. | |
|---------------------------|--------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | | |
| PHOENIX, ARIZONA | 302 | 77 | 285 | 226 | 295 | 263 | 261 | 245 | 69 | 281 | 300 | 291 | 286 | 149 | 277 | 270 | 286 | 282 | 275 | 274 | 216 | 278 | 277 | 277 | 155 | 176 | 176 | 158 | 211 | 123 | 274 | 187 | 229 |
| PORTLAND, MAINE | 161 | 148 | 199 | 157 | 175 | 101 | 199 | 72 | 40 | 177 | 163 | 107 | 46 | 87 | 183 | 175 | 32 | 179 | 59 | 161 | 161 | 90 | 127 | 95 | 127 | 135 | 137 | 91 | 139 | 109 | 182 | 182 | 174 |
| RADFORD CITY, N. DAK. | 194 | 170 | 178 | 157 | 191 | 191 | 136 | 135 | 41 | 129 | 138 | 165 | 195 | 239 | 181 | 157 | 126 | 113 | 223 | 238 | 178 | 95 | 105 | 105 | 117 | 187 | 184 | 207 | 183 | 183 | 267 | 191 | 166 |
| RENO, NEVADA | 154 | 103 | 112 | 196 | 241 | 249 | 124 | 64 | 244 | 262 | 233 | 239 | 41 | 93 | 172 | 61 | 149 | 92 | 113 | 97 | 124 | 114 | 74 | 114 | 137 | 143 | 207 | 113 | 133 | 267 | 203 | 141 | |
| SILVER SPRING, CALIF. | 148 | 181 | 110 | 150 | 134 | 78 | 141 | 146 | 174 | 55 | 148 | 120 | 92 | 42 | 25 | 54 | 167 | 171 | 77 | 57 | 117 | 180 | 164 | 135 | 117 | 58 | 119 | 55 | 116 | 121 | 174 | 174 | 117 |
| SAN FRANCISCO, CALIFORNIA | 307 | 113 | 324 | 326 | 336 | 275 | 314 | 180 | 130 | 333 | 337 | 333 | 320 | 305 | 248 | 157 | 117 | 182 | 172 | 163 | 91 | 198 | 334 | 186 | 186 | 161 | 153 | 249 | 294 | 308 | 299 | 278 | 242 |
| ST. LOUIS, MISSOURI | 158 | 216 | 225 | 281 | 169 | 302 | 299 | 278 | 140 | 260 | 100 | 273 | 271 | 287 | 24 | 206 | --- | 120 | 94 | 26 | 59 | 77 | 103 | 291 | 262 | 273 | 268 | 79 | 172 | 56 | 66 | 181 | |
| ST. PAUL, MINN. | 36 | 115 | 14 | 58 | 113 | 92 | 81 | 49 | 170 | 70 | 63 | 30 | 178 | 173 | 59 | 47 | 18 | 73 | 159 | 174 | 82 | 48 | 134 | 93 | 348 | 129 | 197 | 204 | 152 | 103 | 93 | 104 | |
| SALT LAKE CITY | 156 | 177 | 262 | 65 | 227 | 242 | 136 | 207 | 11 | 214 | 175 | 244 | 269 | 221 | 196 | --- | 72 | --- | 255 | 196 | 119 | 99 | 105 | 216 | 221 | 144 | 198 | 191 | 133 | --- | --- | 187 | 174 |
| SAN ANTONIO, TEXAS | 186 | 170 | 323 | 262 | 213 | 323 | 191 | 169 | 260 | 177 | 100 | 290 | --- | 102 | 235 | 360 | 341 | 159 | 198 | 62 | 169 | 95 | 109 | 344 | 340 | 346 | 197 | 76 | 300 | --- | --- | --- | 212 |
| SANTA MARIA, CALIF. | 161 | 231 | 287 | 295 | 298 | 279 | 248 | 151 | 298 | 299 | 293 | 293 | 237 | 291 | 260 | 140 | 235 | 112 | 73 | 129 | 113 | 216 | 212 | 263 | 263 | 157 | 164 | 294 | 295 | 264 | 201 | 201 | 207 |
| SANTEE, S. D. | 165 | 63 | 169 | 106 | 169 | 161 | 152 | 107 | 30 | 78 | 98 | 184 | 122 | 90 | 120 | 36 | 47 | 25 | 63 | 161 | 161 | 61 | 30 | 109 | 90 | 118 | 153 | 164 | 222 | 160 | 160 | 160 | 160 |
| SEATTLE, WASH. | 35 | 60 | 40 | 106 | 18 | 21 | 103 | 117 | 88 | 14 | 131 | 108 | 35 | 32 | 15 | 22 | 117 | 95 | 30 | 45 | 131 | 73 | 76 | 163 | 163 | 148 | 53 | 53 | 66 | 11 | 100 | 100 | 100 |
| SPOKANE, WASHINGTON | 118 | 36 | 50 | 132 | 51 | 55 | 84 | 81 | 109 | 65 | 116 | 124 | 138 | 35 | 79 | 67 | 118 | 32 | 51 | 75 | 76 | 163 | 78 | 73 | 13 | 61 | 78 | 73 | 72 | 42 | 156 | 93 | 93 |
| STOKE, VIRGINIA | --- | 231 | 198 | 191 | 183 | 248 | 242 | 164 | 92 | 170 | 55 | 16 | 82 | 206 | 237 | 20 | 142 | 203 | 91 | 150 | 20 | 36 | 13 | 230 | 146 | 231 | 328 | 272 | 270 | 270 | 270 | 270 | 145 |
| TALLAHASSEE, FLORIDA | 226 | 230 | 275 | 276 | 320 | 302 | 315 | 234 | 281 | 284 | 272 | 133 | 234 | 274 | 97 | 77 | 310 | 308 | 291 | 279 | 274 | 84 | 298 | 101 | 112 | 320 | 157 | 294 | 294 | 294 | 294 | 294 | 294 |
| TAMPA, FLORIDA | 221 | 258 | 314 | 326 | 331 | 333 | 346 | 294 | 337 | 325 | 214 | 332 | 247 | 286 | 308 | 246 | 324 | 320 | 320 | 324 | 320 | 318 | 324 | 310 | 266 | 162 | 162 | 162 | 162 | 162 | 162 | 162 | 162 |
| TULSA, OKLA. | 313 | 184 | 268 | 293 | 313 | 300 | 287 | 281 | 138 | 298 | 308 | 309 | 295 | 103 | 293 | 299 | 300 | 228 | 301 | 143 | 190 | 112 | 299 | 319 | 276 | 96 | 96 | 96 | 96 | 96 | 96 | 96 | 96 |
| WASHINGTON, D. C. | 454 | 461 | 464 | 456 | 457 | 401 | 438 | 445 | 308 | 401 | 376 | 443 | 342 | 453 | 446 | 406 | 322 | 282 | 332 | 411 | 407 | 411 | 408 | 438 | 438 | 400 | 415 | 405 | 405 | 405 | 405 | 405 | 405 |

Note: --Labelled is the unit used to denote one gram calorie per square centimeter.

The solar radiation data in this table form the basis for the analyses in Charts VII, A, and B, of this publication. The analyses include adjustments required to bring station records to approximately the same level of calibration.

Values with an asterisk are interpolated.

NET RADIATION

Net radiation in langbeys per day (8 a. m. to 8 a. m.) at Palmer, Alaska.

TABLE 1976

| Date | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | Avg. |
|----------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|-----|-----|-----|-----|-----|-----|-----|-----|----|-----|-----|-----|-----|-----|------|
| Langbeys | -184 | -115 | -159 | -110 | -33 | -51 | -85 | -74 | -15 | -60 | -42 | -36 | -45 | -28 | -14 | -21 | -5 | -11 | -18 | -13 | -84 | -11 | -64 | -41 | -38 | -8 | -54 | -69 | -85 | -57 | -52 | |

The measurement is made with a net exchange radiometer over a plate. The value represents the total incoming minus the total outgoing radiation of all wave lengths.

These data are of an experimental nature and are published as received from the Palmer Exp. Station. The instrument with which they were measured has not been checked by the NOAA, National Weather Service.

SOLAR ULTRA-VIOLET RADIATION DATA

Daily totals and monthly average (3000 Å) at Ames, Iowa.

| Date | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | Avg. |
|----------|---|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Langbeys | | 5.61 | 5.62 | 6.11 | 6.31 | 6.11 | 5.03 | 4.63 | 4.93 | 0.59 | 3.75 | 3.25 | 7.99 | 7.00 | 5.13 | 4.54 | 2.07 | 1.48 | 6.81 | 5.72 | 1.77 | 2.27 | 6.90 | 6.41 | 6.90 | 6.71 | 6.81 | 6.02 | 6.51 | 5.13 | 6.31 | 5.14 |

These data are from an U-V Eppley total ultra violet sensor and Spectromax II (Leeds Northrup) Recorder. It is at the same location (Agronomy Building, Iowa State University, Ames) as the published total solar radiation instrumentation. This instrument has not been checked by the NOAA, National Weather Service.

TOTAL OZONE DATA

These provisional ozone data are obtained from measurements made with a Dobson ozone spectrophotometer, and are applicable approximately to local apparent noon. The data are presented in the code as p p defined in the August 1962 WMO circular entitled "PUBLICATION OF DATA FOR METEOROLOGICAL RESEARCH, WORLD OZONE DATA."

Units: Milli-atmo-cms.

| Station | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | Mean O ₃ | |
|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------------------|-----|
| AMUNDSEN-SCOTT | 20282 | 20298 | 20305 | 20234 | 20338 | 20342 | 20353 | 20349 | 20355 | 20338 | 20344 | 20375 | 20365 | 20340 | 20348 | 20340 | 20358 | 20327 | 20333 | 20365 | 35366 | 20337 | 20340 | 20318 | 20311 | 20286 | 20295 | 35348 | 20308 | 20310 | 20304 | 332 | |
| REDFORD, MASS. | 00317 | 00318 | 00339 | 06348 | - | - | 00368 | 35354 | 06354 | 36334 | 02320 | - | - | 05340 | 00354 | 02311 | - | 00333 | - | - | 00322 | 35303 | - | - | - | - | - | 00364 | 00334 | - | - | 236 | |
| RISMARCK, N. OAK. | 00345 | 20344 | 26369 | 34343 | 00335 | 06314 | 00316 | 35297 | 33302 | 00331 | 00327 | 00334 | 34333 | - | 00337 | 20329 | - | - | 00385 | 31329 | - | - | 00314 | 20322 | 20322 | 20285 | 00336 | 33378 | 00433 | 02376 | 341 | | |
| POULDER COLO. | 00306 | 03300 | 00299 | 00298 | - | - | 00288 | 00289 | 05293 | - | 00300 | - | - | 05301 | 05342 | 00316 | 00322 | - | - | - | 00313 | 04352 | 00320 | 02315 | - | - | - | - | 00313 | - | 00344 | 04339 | 313 |
| CARIBOU, MAINE | 02340 | - | 00385 | - | 00398 | 34406 | - | - | - | - | - | 32393 | 35349 | 35342 | 35382 | 00350 | 35355 | - | 35381 | 35366 | 32364 | - | - | - | - | - | - | - | - | - | - | 00384 | 370 |
| GREEN RAY, WIS. | 34344 | 00341 | - | 34341 | 00382 | 00337 | 34357 | 04316 | 00310 | 04312 | - | 34359 | 00340 | 00347 | 04335 | 04350 | - | - | - | 00353 | - | - | 00313 | 00431 | - | - | 00332 | 00337 | 00364 | 00381 | - | 348 | |
| HUANCAYO, PERU | 00263 | 33294 | 05296 | 00268 | 00270 | 00270 | 00270 | 00274 | 00275 | 05274 | 00280 | 00276 | 00272 | 00270 | 00268 | 00275 | 00278 | 00276 | 00280 | 00275 | 05277 | 00280 | 05263 | 00275 | 00268 | 05263 | 00276 | 00272 | 00278 | 00272 | 00264 | 274 | |
| MAINA LOA, HAWAII | - | 07274 | - | 00272 | - | - | - | 00264 | 00260 | - | - | 00252 | - | 00252 | - | 00250 | - | 00252 | - | - | 00250 | - | 00265 | - | - | - | - | - | 00255 | 00247 | - | 258 | |
| NASHVILLE, TENN. | 04301 | 04302 | 00282 | 00278 | 04313 | 00310 | 00310 | 00301 | 35287 | 00281 | 00276 | 35284 | 06302 | 00314 | 05298 | 04332 | 05306 | 00267 | 04289 | 04289 | - | - | 00281 | 00290 | 00303 | 00304 | 00290 | - | 00306 | 04304 | - | 296 | |
| WALLOPS ISLAND VA. | - | - | - | - | - | - | 00368 | 00340 | - | 00310 | 00297 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 329 | |

The spectrophotometer measures the total amount of ozone in the atmosphere, i.e., the amount contained in a vertical column of air extending from ground level to the top of the atmosphere in the vicinity of the station. The amount of ozone in this column (coded as p p) is expressed in terms of a thickness of a layer it would occupy at standard temperature and pressure, e.g., 350 milli-atmo-cm ozone implies an ozone layer 0.350 centimeter thick. The code as designates the type of measurement made.

Average monthly values

| JOHN F. KENNEDY INT. AP NY
REPT. 1969 1019 MB | | | | | | | | | | | | | JOHN F. KENNEDY INT. AP NY
OCT. 1969 1021 MB | | | | | | | | | | | | | JOHN F. KENNEDY INT. AP NY
NOV. 1969 1017 MB | | | | | | | | | | | | | JOHN F. KENNEDY INT. AP NY
DEC. 1969 1013 MB | | | | | | | | | | | | | JOHN F. KENNEDY INT. AP NY
JAN. 1970 1017 MB | | | | | | | | | | | | |
|--|----|--------|-------|-------|----|------|----|--------|-------|-------|----|------|---|--------|--------|-------|-------|------|--------|--------|-------|-------|------|-----|--------|---|-------|-------|------|-----|--|--|--|--|--|--|--|--|---|--|--|--|--|--|--|--|--|--|--|--|--|---|--|--|--|--|--|--|--|--|--|--|--|--|
| SURFACE | 30 | 5 | 15.9 | 12.5 | 34 | 1.7 | 31 | 5 | 11.4 | 6.4 | 30 | 2.2 | 29 | 5 | 5.7 | 1.2 | 33 | 2.4 | 30 | 5 | -2 | -5.6 | 32 | 4.2 | 31 | 5 | -5.1 | -10.6 | 30 | 4.4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1000 | 30 | 166 | 167 | 11.9 | 35 | 2.6 | 31 | 176 | 11.3 | 4.9 | 31 | 2.8 | 29 | 139 | 5.5 | -1.3 | 33 | 2.7 | 30 | 104 | -1.9 | -9.4 | 34 | 5.3 | 31 | 1.4 | -5.9 | -12.3 | 31 | 6.2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 950 | 30 | 604 | 154 | 8.5 | 35 | 2.9 | 31 | 604 | 10.0 | 2.1 | 31 | 4.0 | 29 | 557 | 3.5 | -4.32 | 34 | 3.6 | 512 | -2.9 | -7.7 | 33 | 5.9 | 31 | 535 | -7.0 | -12.9 | 31 | 9.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 900 | 30 | 1106 | 133 | 5.2 | 31 | 2.4 | 31 | 1029 | 9.9 | -2.2 | 31 | 2.9 | 29 | 985 | 1.6 | -3.5 | 33 | 2.9 | 99 | -9.9 | -3.9 | 32 | 9.1 | 31 | 957 | -8.0 | -13.5 | 31 | 11.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 850 | 30 | 1.50 | 1.6 | 2.3 | 27 | 3.3 | 31 | 1.23 | 7.2 | -7.2 | 25 | 5.7 | 29 | 1.45 | -1 | -1.7 | 31 | 5.3 | 12.90 | -5.3 | -10.8 | 29 | 5.6 | 31 | 1.5 | -1.5 | -13.1 | 29 | 1.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 800 | 30 | 2.044 | 8.9 | -3.5 | 27 | 4.3 | 31 | 2.020 | 5.2 | -9.6 | 24 | 7.4 | 29 | 1.938 | -2.2 | -11.4 | 27 | 6.8 | 1.868 | -5.0 | -12.7 | 27 | 7.7 | 31 | 1.889 | -10.2 | -17.5 | 30 | 13.9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 750 | 30 | 2.577 | 6.8 | -6.9 | 27 | 5.7 | 31 | 2.545 | 2.9 | -11.7 | 25 | 8.1 | 29 | 2.449 | -6.4 | -14.5 | 25 | 9.2 | 2.373 | -7.0 | -15.0 | 27 | 10.3 | 31 | 2.364 | -11.9 | -20.9 | 29 | 14.7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 700 | 30 | 3.141 | 4.1 | -10.1 | 27 | 7.0 | 31 | 3.101 | 4 | -16.8 | 25 | 9.6 | 29 | 2.990 | -6.4 | -17.6 | 25 | 10.8 | 2.910 | -9.3 | -17.2 | 27 | 12.2 | 31 | 2.890 | -13.9 | -26.9 | 28 | 19.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 650 | 30 | 3.741 | 4.8 | -13.2 | 27 | 8.3 | 31 | 3.692 | -2.3 | -20.1 | 26 | 11.5 | 29 | 3.966 | -9.4 | -19.9 | 25 | 11.8 | 3.940 | -12.2 | -20.1 | 27 | 13.1 | 31 | 3.940 | -16.1 | -25.4 | 28 | 22.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 600 | 30 | 4.380 | -2.6 | -15.3 | 26 | 9.5 | 31 | 4.326 | -2.6 | -23.8 | 26 | 12.5 | 29 | 4.182 | -12.2 | -25.2 | 25 | 13.4 | 4.088 | -12.2 | -23.5 | 27 | 15.5 | 31 | 4.088 | -18.4 | -28.3 | 28 | 23.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 550 | 30 | 5.020 | -4.0 | -20.2 | 26 | 10.7 | 31 | 5.002 | -9.2 | -27.1 | 27 | 15.5 | 29 | 4.859 | -12.2 | -25.8 | 25 | 15.0 | 4.740 | -19.3 | -29.3 | 27 | 17.3 | 31 | 4.689 | -24.0 | -32.2 | 28 | 26.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 500 | 30 | 5.803 | -11.3 | -25.5 | 26 | 11.7 | 31 | 5.733 | -13.8 | -31.4 | 27 | 16.3 | 29 | 5.554 | -20.8 | -30.6 | 25 | 16.1 | 5.443 | -23.4 | -33.2 | 27 | 20.3 | 31 | 5.378 | -28.3 | -36.1 | 28 | 30.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 450 | 30 | 6.603 | -16.7 | -30.7 | 26 | 12.3 | 31 | 6.526 | -19.0 | -35.2 | 27 | 18.9 | 29 | 6.325 | -25.8 | -36.7 | 25 | 18.2 | 6.206 | -29.5 | -38.7 | 27 | 23.4 | 31 | 6.127 | -32.8 | -40.1 | 28 | 35.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 400 | 30 | 7.478 | -22.9 | -36.6 | 26 | 14.1 | 31 | 7.392 | -25.3 | -40.3 | 27 | 19.6 | 29 | 7.169 | -33.3 | -42.0 | 25 | 19.6 | 7.001 | -34.0 | -42.0 | 27 | 27.1 | 31 | 6.947 | -31.9 | -42.3 | 28 | 40.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 350 | 30 | 8.446 | -30.0 | -43.0 | 26 | 15.9 | 31 | 8.351 | -32.0 | -46.0 | 27 | 22.8 | 29 | 8.106 | -37.4 | -44.6 | 25 | 21.9 | 7.967 | -39.8 | -47.0 | 28 | 31.5 | 31 | 7.859 | -34.1 | -42.8 | 27 | 43.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 300 | 30 | 9.522 | -38.2 | -48.9 | 26 | 18.5 | 31 | 9.419 | -40.0 | -50.5 | 27 | 25.4 | 29 | 9.152 | -44.4 | -50.6 | 25 | 23.7 | 9.029 | -46.0 | -50.5 | 28 | 33.1 | 31 | 8.029 | -38.9 | -48.9 | 27 | 56.9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 250 | 30 | 10.750 | -46.4 | -58.6 | 25 | 21.5 | 31 | 10.636 | -48.0 | -60.7 | 27 | 30.0 | 29 | 10.356 | -52.0 | -60.7 | 25 | 28.4 | 10.209 | -54.9 | -60.7 | 28 | 38.9 | 31 | 9.008 | -46.8 | -58.6 | 27 | 68.9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 200 | 29 | 12.020 | -54.8 | -68.6 | 25 | 23.5 | 31 | 12.083 | -55.6 | -67.0 | 27 | 34.0 | 29 | 11.792 | -55.0 | -67.0 | 25 | 29.4 | 11.660 | -54.5 | -67.0 | 28 | 38.9 | 31 | 11.507 | -54.2 | -67.0 | 27 | 41.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 175 | 29 | 13.048 | -57.5 | -72.6 | 26 | 22.0 | 31 | 12.930 | -58.2 | -70.7 | 27 | 31.2 | 29 | 12.645 | -55.5 | -70.7 | 25 | 29.4 | 12.522 | -53.3 | -70.7 | 28 | 30.9 | 31 | 12.372 | -54.8 | -70.7 | 27 | 40.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 150 | 29 | 14.017 | -59.6 | -74.6 | 26 | 19.7 | 31 | 13.993 | -56.6 | -72.8 | 27 | 28.0 | 29 | 13.625 | -56.6 | -72.8 | 25 | 29.9 | 13.512 | -54.0 | -72.8 | 28 | 26.8 | 31 | 13.370 | -54.8 | -72.8 | 27 | 37.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 125 | 28 | 15.153 | -61.9 | -76.2 | 26 | 17.6 | 31 | 15.024 | -62.7 | -74.7 | 27 | 25.1 | 29 | 14.773 | -59.4 | -74.7 | 25 | 25.8 | 14.678 | -55.9 | -74.7 | 27 | 22.3 | 31 | 14.542 | -54.4 | -74.7 | 26 | 33.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 100 | 28 | 16.331 | -62.1 | -76.2 | 26 | 12.3 | 31 | 16.335 | -63.6 | -76.2 | 27 | 20.8 | 29 | 16.175 | -59.4 | -76.2 | 25 | 25.8 | 16.090 | -58.5 | -76.2 | 27 | 17.6 | 31 | 15.903 | -55.6 | -76.2 | 26 | 28.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 75 | 28 | 17.917 | -69.6 | -76.2 | 26 | 7.6 | 31 | 17.771 | -69.6 | -76.2 | 27 | 15.9 | 29 | 17.774 | -58.9 | -76.2 | 25 | 25.8 | 17.794 | -58.9 | -76.2 | 27 | 12.9 | 31 | 17.473 | -54.0 | -76.2 | 26 | 14.4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 50 | 28 | 18.754 | -58.3 | -76.2 | 26 | 5.5 | 31 | 18.600 | -60.1 | -76.2 | 28 | 15.4 | 28 | 18.414 | -58.6 | -76.2 | 25 | 10.6 | 18.333 | -58.6 | -76.2 | 28 | 9.3 | 31 | 18.120 | -54.0 | -76.2 | 27 | 15.4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 25 | 28 | 19.729 | -58.3 | -76.2 | 26 | 3.7 | 31 | 19.560 | -59.2 | -76.2 | 28 | 11.9 | 28 | 19.385 | -58.1 | -76.2 | 25 | 11.2 | 19.301 | -58.8 | -76.2 | 28 | 7.5 | 31 | 19.188 | -54.8 | -76.2 | 27 | 11.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 27 | 20.893 | -54.6 | -76.2 | 28 | 1.4 | 30 | 20.707 | -57.7 | -76.2 | 28 | 9.8 | 28 | 20.534 | -57.8 | -76.2 | 25 | 9.3 | 20.446 | -58.7 | -76.2 | 29 | 4.9 | 30 | 20.339 | -51.7 | -76.2 | 28 | 7.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 24 | 22.326 | -52.2 | -76.2 | 28 | 1 | 30 | 22.120 | -56.0 | -76.2 | 28 | 10.3 | 27 | 21.938 | -56.2 | -76.2 | 26 | 10.4 | 21.852 | -58.9 | -76.2 | 30 | 4.1 | 31 | 21.747 | -54.8 | -76.2 | 29 | 4.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 24 | 24.202 | -48.8 | -76.2 | 28 | 0 | 29 | 23.866 | -52.3 | -76.2 | 28 | 9 | 28 | 23.765 | -57.5 | -76.2 | 26 | 12.9 | 23.656 | -58.9 | -76.2 | 30 | 3.1 | 31 | 23.566 | -54.8 | -76.2 | 29 | 3.6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 25 | 25.350 | -47.5 | -76.2 | 28 | 0 | 29 | 25.159 | -52.4 | -76.2 | 28 | 9 | 28 | 25.068 | -57.7 | -76.2 | 26 | 12.9 | 24.999 | -58.9 | -76.2 | 31 | 2 | 31 | 24.712 | -54.8 | -76.2 | 30 | 2.6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 26 | 26.885 | -45.0 | -76.2 | 28 | 0 | 29 | 26.618 | -67.7 | -76.2 | 28 | 4 | 28 | 26.363 | -55.3 | -76.2 | 27 | 17.6 | 26.249 | -59.9 | -76.2 | 30 | 1.1 | 31 | 26.120 | -54.4 | -76.2 | 29 | 3.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 17 | 28.816 | -33.4 | -76.2 | 29 | 1 | 30 | 28.547 | -44.8 | -76.2 | 27 | 1.7 | 28 | 28.205 | -51.3 | -76.2 | 27 | 23.9 | 28.027 | -55.5 | -76.2 | 29 | 1.4 | 31 | 27.978 | -54.8 | -76.2 | 28 | 7.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 15 | 31.567 | -39.8 | -76.2 | 30 | 1 | 31 | 31.258 | -42.8 | -76.2 | 27 | 1.8 | 1 | 30 | 30.849 | -48.3 | -76.2 | 27 | 23.9 | 30.527 | -55.5 | -76.2 | 29 | 1.4 | 31 | 30.952 | -54.8 | -76.2 | 28 | 7.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Average monthly value

[illegible][illegible]

| | MIDLAND, TEXAS
FEB. 1970 | | | | MIDLAND, TEXAS
MAR. 1970 | | | | MIDLAND, TEXAS
APR. 1970 | | | | MIDLAND, TEXAS
MAY 1970 | | | | MIDLAND, TEXAS
JUNE 1970 | | | | | | |
|---------|-----------------------------|-------|-------|------|-----------------------------|-----|--------|-------|-----------------------------|-----|------|-----|----------------------------|-------|-------|------|-----------------------------|-------|--------|-------|-------|------|----|
| | 874 | 919 | MB | | 874 | 914 | MB | | 874 | 912 | MB | | 874 | 917 | MB | | 874 | 916 | MB | | | | |
| SURFACE | 2.8 | -4.9 | 2.5 | 7.31 | 3.7 | 1.0 | 2.5 | 5.30 | 10.0 | 1.9 | 2.3 | 1.8 | 31 | 13.1 | 7.9 | 17 | 2.2 | 30 | 18.9 | 13.7 | 2.4 | | |
| 9000 | 185 | | | 31 | 130 | | | 30 | 100 | | | 31 | 132 | | | 30 | 110 | | | | | | |
| 1500 | 606 | | | 31 | 552 | | | 30 | 533 | | | 31 | 570 | | | 30 | 558 | | | | | | |
| 2000 | 1,047 | 0.2 | -1.25 | 2.7 | 31 | 195 | 5.9 | 9 | 24 | 1.0 | 30 | 986 | 13.5 | 2.9 | 2.3 | 2.6 | 31 | 1,028 | 16.4 | 8.1 | 19 | | |
| 850 | 1,517 | 6.91 | -5.5 | 27 | 3.6 | 31 | 1,484 | 6.3 | -4.9 | 28 | 4.4 | 30 | 1,469 | 14.6 | -3.9 | 2.5 | 6.1 | 31 | 1,515 | 16.5 | 1.5 | 19 | |
| 700 | 2,015 | -0.1 | -0.1 | 28 | 3.3 | 31 | 2,061 | 5.6 | -8.8 | 29 | 1.2 | 7.0 | 30 | 2,033 | 14.4 | -3.9 | 21 | 2.6 | 31 | 2,039 | 14.4 | -3.9 | 21 |
| 550 | 2,539 | -6.6 | -11.4 | 28 | 3.0 | 31 | 2,486 | 2.7 | -11.2 | 28 | 8.4 | 30 | 2,517 | 8.7 | -10.2 | 2.5 | 8.4 | 31 | 2,588 | 13.7 | 7.2 | 24 | |
| 700 | 3,093 | -4.6 | -14.7 | 28 | 5.0 | 31 | 3,041 | -1.0 | -16.4 | 28 | 10.2 | 30 | 3,083 | 4.9 | -13.4 | 2.4 | 11.0 | 31 | 3,143 | 7.0 | -10.9 | 30 | |
| 650 | 3,681 | -6.3 | -18.9 | 28 | 7.9 | 31 | 3,628 | -4.8 | -17.5 | 27 | 11.7 | 30 | 3,683 | 8.7 | -16.9 | 2.4 | 14.1 | 31 | 3,747 | 2.4 | -14.4 | 30 | |
| 600 | 4,308 | -8.2 | -22.5 | 28 | 9.6 | 31 | 4,253 | -8.7 | -23.8 | 26 | 14.7 | 30 | 4,320 | -3.9 | -20.5 | 2.4 | 17.6 | 31 | 4,388 | -2.3 | -17.4 | 29 | |
| 550 | 4,978 | -12.5 | -26.1 | 28 | 10.8 | 31 | 4,921 | -13.4 | -29.1 | 26 | 16.1 | 30 | 5,000 | -8.7 | -24.7 | 2.5 | 21.4 | 31 | 5,072 | -7.4 | -21.9 | 29 | |
| 500 | 5,639 | -17.3 | -29.7 | 28 | 13.0 | 31 | 5,539 | -18.4 | -33.2 | 28 | 18.9 | 30 | 5,731 | -14.0 | -27.2 | 2.4 | 24.1 | 31 | 5,806 | -13.0 | -27.7 | 28 | |
| 450 | 6,281 | -22.3 | -35.2 | 28 | 15.5 | 31 | 6,141 | -23.1 | -37.9 | 27 | 20.8 | 30 | 6,523 | -19.4 | -32.5 | 2.5 | 26.5 | 31 | 6,601 | -18.4 | -34.5 | 28 | |
| 400 | 7,336 | -28.3 | -46.5 | 27 | 19.3 | 31 | 7,265 | -30.3 | -44.2 | 27 | 24.2 | 30 | 7,388 | -25.8 | -37.3 | 2.3 | 30.3 | 31 | 7,469 | -24.6 | -39.0 | 27 | |
| 350 | 8,283 | -33.1 | -60.1 | 28 | 24.2 | 31 | 8,205 | -37.1 | -48.6 | 27 | 25.9 | 30 | 8,345 | -32.4 | -41.4 | 2.5 | 35.8 | 31 | 8,430 | -31.8 | -43.7 | 27 | |
| 300 | 9,338 | -42.6 | | 27 | 27.7 | 31 | 9,250 | -45.1 | | 27 | 28.9 | 30 | 9,412 | -40.2 | -45.6 | 2.5 | 40.1 | 31 | 9,498 | -40.3 | -46.9 | 27 | |
| 250 | 10,548 | -50.7 | | 27 | 33.0 | 31 | 10,458 | -50.7 | | 27 | 35.3 | 30 | 10,633 | -45.1 | -50.7 | 2.4 | 45.3 | 31 | 10,718 | -44.4 | -50.7 | 27 | |
| 200 | 11,980 | -57.2 | | 27 | 35.8 | 31 | 11,870 | -57.1 | | 27 | 41.1 | 30 | 12,069 | -57.1 | | 25 | 46.3 | 31 | 12,140 | -59.3 | | 26 | |
| 175 | 12,820 | -59.5 | | 27 | 32.4 | 31 | 12,716 | -57.1 | | 27 | 39.2 | 30 | 12,708 | -59.9 | | 25 | 46.7 | 31 | 12,972 | -61.7 | | 26 | |
| 150 | 13,770 | -61.3 | | 27 | 30.9 | 31 | 13,699 | -58.8 | | 27 | 36.6 | 29 | 13,869 | -61.5 | | 25 | 40.5 | 31 | 13,926 | -61.7 | | 26 | |
| 125 | 14,694 | -64.2 | | 27 | 28.9 | 31 | 14,627 | -61.2 | | 27 | 34.4 | 29 | 14,694 | -63.7 | | 25 | 34.7 | 31 | 15,052 | -62.8 | | 26 | |
| 100 | 15,247 | -67.5 | | 27 | 23.4 | 31 | 15,202 | -67.5 | | 27 | 28.2 | 29 | 15,333 | -67.3 | | 25 | 26.0 | 31 | 16,025 | -63.9 | | 27 | |
| 75 | 17,594 | -68.9 | | 27 | 17.6 | 30 | 17,577 | -66.8 | | 27 | 19.9 | 28 | 17,694 | -67.7 | | 25 | 19.6 | 30 | 17,781 | -65.8 | | 27 | |
| 50 | 18,384 | -68.4 | | 27 | 15.0 | 30 | 18,388 | -66.0 | | 27 | 15.8 | 27 | 18,501 | -66.4 | | 25 | 11.2 | 31 | 18,596 | -63.6 | | 24 | |
| 60 | 19,312 | -60.4 | | 27 | 12.7 | 28 | 19,332 | -62.7 | | 26 | 10.7 | 27 | 19,439 | -64.1 | | 24 | 6.8 | 30 | 19,546 | -61.5 | | 11 | |
| 20 | 20,422 | -64.7 | | 28 | 10.1 | 28 | 20,461 | -60.6 | | 26 | 10.9 | 26 | 20,569 | -59.7 | | 20 | 2.4 | 30 | 20,687 | -58.2 | | 02 | |
| 30 | 21,793 | -62.3 | | 28 | 8.4 | 26 | 21,755 | -57.0 | | 26 | 8.6 | 26 | 21,974 | -57.4 | | 14 | 8.0 | 30 | 22,102 | -57.2 | | 09 | |
| 30 | 23,583 | -7.7 | | 27 | 7.4 | 26 | 23,707 | -59.7 | | 26 | 7.4 | 26 | 23,810 | -59.3 | | 08 | 3.0 | 28 | 24,135 | -59.3 | | 09 | |
| 25 | 24,731 | -56.7 | | 27 | 12.8 | 24 | 24,887 | -50.9 | | 26 | 8.9 | 24 | 24,988 | -51.9 | | 08 | 4.0 | 30 | 25,145 | -49.3 | | 09 | |
| 20 | 26,131 | -53.3 | | 27 | 18.1 | 24 | 26,350 | -47.8 | | 26 | 8.1 | 24 | 26,443 | -49.0 | | 00 | 3.2 | 28 | 26,622 | -46.4 | | 09 | |
| 15 | 28,028 | -49.1 | | 27 | 25.7 | 22 | 28,258 | -44.9 | | 26 | 9.5 | 22 | 28,342 | -45.6 | | 04 | 1.1 | 24 | 28,549 | -43.3 | | 08 | |
| 10 | 30,728 | -42.8 | | 27 | 33.4 | 11 | 30,987 | -41.2 | | 26 | 14 | 31 | 31,062 | -39.7 | | 28 | 5.6 | 20 | 31,316 | -38.5 | | 09 | |

See reference note at end of table.

Average monthly values

2013年11月

[illegible]

| NASHVILLE, TENN. | | | | | | | | | | NASHVILLE, TENN. | | | | | | | | | | NASHVILLE, TENN. | | | | | | | | | | NASHVILLE, TENN. | | | | | | | | | | NORTH PLATTE, NEBR. | | | | | | | | | |
|---------------------|----|-------|-------|------|----|------|-----|-------|-------|---------------------|------|------|-------|-------|-------|-------|-----|-------|-------|--------------------|-------|-------|-------|-----|-------|-------|-------|-------|-------|---------------------|------|------|--|--|--|--|--|--|--|---------------------|--|--|--|--|--|--|--|--|--|
| MAR. 1970
994 MB | | | | | | | | | | APR. 1970
994 MB | | | | | | | | | | MAY 1970
999 MB | | | | | | | | | | JUNE 1970
996 MB | | | | | | | | | | JAN. 1972
918 MB | | | | | | | | | |
| SURFACE | 31 | 180 | 4.0 | -9 | 35 | 1.2 | 30 | 180 | 11.0 | 8.1 | 18 | 2.0 | 30 | 180 | 15.0 | 12.5 | 16 | 7 | 30 | 180 | 19.0 | 17.2 | 17 | 1.2 | 31 | 64.7 | -10.2 | -13.7 | 30 | 2.6 | | | | | | | | | | | | | | | | | | | |
| 9500 | 31 | 133 | | | | 30 | 126 | | | | | 30 | 171 | | | | | 7 | 30 | 142 | | | 31 | 177 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1000 | 31 | 551 | 4.2 | -9 | 27 | 1.6 | 30 | 557 | 12.9 | 4.7 | 21 | 5.4 | 30 | 610 | 17.6 | 7.1 | 22 | 3.1 | 30 | 585 | 19.7 | 14.4 | 21 | 3.9 | 31 | 577 | | | | | | | | | | | | | | | | | | | | | | | |
| 900 | 31 | 990 | 2.6 | -3.2 | 26 | 4.3 | 30 | 1011 | 11.0 | -7 | 24 | 6.7 | 30 | 1051 | 14.7 | 4.1 | 24 | 4.8 | 30 | 1050 | 17.1 | 11.6 | 24 | 4.7 | 31 | 996 | -7.6 | -13.6 | 31 | 4.6 | | | | | | | | | | | | | | | | | | | |
| 800 | 31 | 1453 | -1.5 | -7 | 2 | 7.4 | 30 | 1496 | 8.0 | -2 | 6 | 8.3 | 30 | 1531 | 10.9 | 8.3 | 5 | 5.1 | 30 | 1533 | 12.7 | 5.5 | 25 | 5.2 | 31 | 1464 | -7.6 | -14.7 | 31 | 8.0 | | | | | | | | | | | | | | | | | | | |
| 700 | 31 | 1938 | -3 | -9 | 5 | 9.1 | 30 | 1986 | 6.1 | -6 | 2 | 10.1 | 30 | 2056 | 9.1 | -2 | 3 | 5.7 | 30 | 2048 | 12.4 | 2.6 | 5 | 5.2 | 31 | 1922 | -4.5 | -14.6 | 31 | 11.0 | | | | | | | | | | | | | | | | | | | |
| 600 | 31 | 2453 | -2.6 | -11 | 2 | 10.7 | 30 | 2512 | 3.3 | -11 | 0 | 12.6 | 30 | 2589 | 6.4 | -8 | 0 | 2 | 6.0 | 30 | 2586 | 9.0 | -3 | 2 | 4.9 | 31 | 2428 | -6.7 | -15.3 | 31 | 13.0 | | | | | | | | | | | | | | | | | | |
| 500 | 31 | 2997 | -5.7 | -13 | 6 | 12.8 | 30 | 3068 | 4 | -13 | 8 | 15.0 | 30 | 3151 | 3.2 | -13 | 5 | 2 | 6.0 | 30 | 3155 | 5.5 | -5 | 0 | 5.0 | 31 | 2964 | -10.1 | -18.0 | 31 | 14.3 | | | | | | | | | | | | | | | | | | |
| 400 | 31 | 3576 | -8.3 | -19 | 5 | 16.1 | 30 | 3659 | -3.1 | -15 | 9 | 16.8 | 30 | 3748 | -1 | -17 | 8 | 2 | 6.2 | 30 | 3757 | 2.4 | -9 | 7 | 2 | 30 | 3532 | -13.4 | -21.8 | 30 | 15.7 | | | | | | | | | | | | | | | | | | |
| 350 | 31 | 4193 | -11.9 | -23 | 4 | 19.0 | 30 | 4288 | -7.2 | -19 | 5 | 21.7 | 30 | 4378 | -2 | -21 | 9 | 2 | 8.3 | 30 | 4381 | -1 | -14 | 7 | 2 | 32 | 4137 | -17.1 | -25.7 | 30 | 17.9 | | | | | | | | | | | | | | | | | | |
| 300 | 31 | 4855 | -14.5 | -28 | 1 | 23.2 | 30 | 4955 | -12.3 | -23 | 1 | 21 | 30 | 5065 | -5 | -25 | 1 | 2 | 8.5 | 30 | 5089 | -1 | -18 | 8 | 2 | 33 | 4828 | -20.3 | -29.6 | 30 | 20.0 | | | | | | | | | | | | | | | | | | |
| 250 | 31 | 5505 | -20.8 | -33 | 8 | 24.8 | 30 | 5685 | -16.2 | -27 | 9 | 25.0 | 30 | 5790 | -13.9 | -29 | 2 | 2 | 7.8 | 30 | 5831 | -10.4 | -24 | 6 | 2 | 33 | 5461 | -25.9 | -34.6 | 30 | 21.7 | | | | | | | | | | | | | | | | | | |
| 200 | 31 | 6337 | -26.0 | -38 | 9 | 26.5 | 30 | 6471 | -21.2 | -32 | 8 | 28.3 | 30 | 6589 | -19.3 | -33 | 9 | 8 | 8.3 | 30 | 6634 | -15.5 | -29 | 9 | 8 | 34 | 6236 | -31.2 | -39.9 | 30 | 23.4 | | | | | | | | | | | | | | | | | | |
| 150 | 31 | 7179 | -32.1 | -44 | 8 | 28.3 | 30 | 7330 | -26.9 | -38 | 3 | 30.0 | 30 | 7454 | -25.5 | -39 | 9 | 2 | 10.3 | 30 | 7513 | -21.7 | -34 | 9 | 2 | 36 | 7061 | -37.0 | -43 | 31 | 26.0 | | | | | | | | | | | | | | | | | | |
| 100 | 31 | 8110 | -39.3 | -49 | 8 | 30.1 | 30 | 8263 | -33.9 | -45 | 6 | 33.4 | 30 | 8412 | -32.3 | -46 | 0 | 26 | 11.1 | 30 | 8487 | -28.6 | -41 | 8 | 28 | 37 | 7976 | -43.6 | -49.1 | 30 | 28.4 | | | | | | | | | | | | | | | | | | |
| 50 | 31 | 9146 | -46.8 | -56 | 2 | 35.2 | 30 | 9302 | -41.7 | -48 | 1 | 36.1 | 30 | 9459 | -40.8 | -51 | 6 | 28 | 11.5 | 30 | 9597 | -37.9 | -46 | 8 | 30 | 38 | 8199 | -50.2 | -57 | 30 | 31.8 | | | | | | | | | | | | | | | | | | |
| 250 | 31 | 10336 | -55.8 | -65 | 2 | 39.0 | 30 | 10555 | -50.1 | -57 | 1 | 37 | 44 | 30 | 10697 | -48.6 | -51 | 6 | 27 | 13.4 | 30 | 10803 | -46.1 | 1 | 29 | 10 | 10 | 11 | 10583 | -56.6 | 29 | 30.8 | | | | | | | | | | | | | | | | | |
| 200 | 31 | 11750 | -57.8 | -68 | 2 | 41.8 | 30 | 11990 | -57.1 | -67 | 2 | 40.2 | 30 | 12124 | -59.6 | 26 | 16 | 3 | 16.5 | 30 | 12250 | -56.7 | 29 | 12 | 7 | 11 | 11583 | -55.5 | 29 | 31.7 | | | | | | | | | | | | | | | | | | | |
| 175 | 31 | 12595 | -57.0 | -68 | 2 | 39.1 | 30 | 12829 | -59.6 | 26 | 40.6 | 30 | 12953 | -62.2 | 27 | 16 | 6 | 3 | 16.6 | 30 | 13068 | -60.7 | 29 | 13 | 0 | 3 | 12433 | -55.9 | 29 | 28.3 | | | | | | | | | | | | | | | | | | | |
| 150 | 31 | 13569 | -57.0 | -68 | 2 | 37.2 | 30 | 13789 | -60.0 | 27 | 46.0 | 30 | 13905 | -61.7 | 27 | 14 | 8 | 2 | 14.8 | 30 | 14024 | -62.9 | 30 | 10 | 6 | 3 | 13415 | -61.3 | 29 | 27.8 | | | | | | | | | | | | | | | | | | | |
| 125 | 31 | 14715 | -59.5 | -70 | 27 | 32.8 | 29 | 14724 | -61.6 | 26 | 31.9 | 28 | 15338 | -66.2 | 26 | 13 | 7 | 29 | 15164 | -66.3 | 31 | 7 | 1 | 31 | 14578 | -56.2 | 29 | 23.3 | 31 | 31.7 | | | | | | | | | | | | | | | | | | | |
| 100 | 31 | 16017 | -60.6 | -70 | 26 | 27.3 | 28 | 16272 | -63.9 | 27 | 24 | 24 | 16427 | -68.7 | 27 | 11 | 2 | 24 | 16112 | -68.7 | 27 | 3 | 6 | 3 | 3 | 16037 | -59.7 | 29 | 18.7 | 30 | 30.8 | | | | | | | | | | | | | | | | | | |
| 70 | 31 | 17494 | -61.1 | -70 | 26 | 20.6 | 28 | 17661 | -64.2 | 27 | 14 | 30 | 17795 | -67.7 | 27 | 6 | 9 | 27 | 17696 | -66.1 | 30 | 2 | 6 | 3 | 2 | 17394 | -59.3 | 29 | 13.8 | 30 | 30.8 | | | | | | | | | | | | | | | | | | |
| 70 | 31 | 18324 | -60.5 | -70 | 26 | 17.8 | 28 | 18481 | -62.9 | 27 | 11 | 30 | 18619 | -62.2 | 28 | 3 | 7 | 29 | 18721 | -61.2 | 30 | 5 | 3 | 4 | 3 | 18232 | -59.2 | 30 | 13.3 | 30 | 30.8 | | | | | | | | | | | | | | | | | | |
| 40 | 31 | 19287 | -59.6 | -70 | 26 | 14.6 | 28 | 19433 | -61.6 | 28 | 7 | 30 | 19577 | -60.2 | 30 | 4 | 29 | 19685 | -58.5 | 30 | 7 | 4 | 9 | 3 | 19197 | -59.7 | 30 | 7.6 | 30 | 30.8 | | | | | | | | | | | | | | | | | | | |
| 40 | 31 | 20432 | -58.1 | -70 | 26 | 12.7 | 20 | 20574 | -58.9 | 29 | 4 | 28 | 20712 | -57.3 | 30 | 0 | 2 | 20 | 20838 | -55.9 | 30 | 8 | 5 | 6 | 3 | 20337 | -59.3 | 31 | 6.4 | 30 | 30.8 | | | | | | | | | | | | | | | | | | |
| 40 | 31 | 21844 | -56.0 | -70 | 26 | 10.6 | 27 | 21997 | -57.0 | 31 | 2 | 28 | 22147 | -57.9 | 30 | 2 | 5 | 22 | 22277 | -53.4 | 30 | 9 | 8 | 3 | 3 | 21773 | -59.1 | 32 | 4.4 | 30 | 30.8 | | | | | | | | | | | | | | | | | | |
| 25 | 31 | 23483 | -53.3 | -70 | 27 | 12.1 | 27 | 23615 | -54.8 | 28 | 2 | 27 | 23792 | -54.8 | 28 | 1 | 24 | 23933 | -50.0 | 30 | 10 | 7 | 7 | 3 | 23547 | -59.3 | 31 | 3.4 | 30 | 30.8 | | | | | | | | | | | | | | | | | | | |
| 25 | 31 | 24861 | -51.7 | -70 | 27 | 12.2 | 25 | 24990 | -52.4 | 28 | 2 | 28 | 25181 | -49.8 | 0 | 8 | 3 | 24 | 25329 | -48.5 | 30 | 9 | 5 | 2 | 3 | 24683 | -59.0 | 30 | 3.4 | 30 | 30.8 | | | | | | | | | | | | | | | | | | |
| 20 | 29 | 26317 | -48.7 | -70 | 27 | 14.7 | 24 | 26436 | -50.1 | 28 | 3 | 28 | 26647 | -47.2 | 1 | 10 | 4 | 24 | 26805 | -46.1 | 30 | 9 | 6 | 2 | 3 | 26083 | -59.0 | 30 | 2.7 | 30 | 30.8 | | | | | | | | | | | | | | | | | | |
| 15 | 28 | 28029 | -45.6 | -70 | 27 | 19.9 | 18 | 28340 | -46.4 | 26 | 5 | 28 | 28567 | -44.0 | 0 | 9 | 1 | 3 | 28716 | -39.3 | 30 | 9 | 8 | 4 | 18 | 27887 | -57.3 | 30 | 4.1 | 30 | 30.8 | | | | | | | | | | | | | | | | | | |
| 10 | 12 | 30948 | -40.8 | -70 | 27 | 28.3 | 5 | 31380 | -41.6 | 26 | 15 | 11 | 31589 | -39.5 | 0 | 17 | 31 | 31486 | -39.2 | 30 | 11 | 10 | 3 | 4 | 10 | 30452 | -53.5 | 30 | 4.1 | 30 | 30.8 | | | | | | | | | | | | | | | | | | |

| NORTH PLATTE, NEBR. | | | | | | | | | | | | NORTH PLATTE, NEBR. | | | | | | | | | | | | NORTH PLATTE, NEBR. | | | | | | | | | | | | NORTH PLATTE, NEBR. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------|----|-------|------|-------|----|-----|----|-------|------|------|----|---------------------|----|-------|-----|------|----|-----|----|---------|------|-----|----|---------------------|----|-------|------|-----|----|-----|----|-------|------|------|----|---------------------|----|-----|------|------|----|-----|----|-----|-----|------|----|-----------|----|-------|------|-----|----|-----|----|-------|------|-----|----|-----|----|-------|------|------|----|-----|----|-----|------|------|----|-----|----|-----|-----|------|----|-----|----|-------|------|-----|----|-----|----|-------|------|-----|----|-----|----|-------|------|------|----|-----|----|-----|------|------|----|-----|----|-----|-----|------|----|-----|----|-------|------|-----|----|-----|----|-------|------|-----|----|-----|----|-------|------|------|----|-----|----|-----|------|------|----|-----|----|-----|-----|------|----|-----|----|-------|------|-----|----|-----|----|-------|------|-----|----|-----|
| FEB. 1970 | | | | | | | | | | | | MAR. 1970 | | | | | | | | | | | | APR. 1970 | | | | | | | | | | | | MAY 1970 | | | | | | | | | | | | JUNE 1970 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 921 MB | | | | | | | | | | | | 917 MB | | | | | | | | | | | | 912 MB | | | | | | | | | | | | 916 MB | | | | | | | | | | | | 916 MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SURFACE | 28 | 847 | -5.9 | 9.5 | 34 | 1.8 | 31 | 847 | -5.0 | -8.2 | 02 | 2.0 | 30 | 847 | 1.3 | -2.8 | 01 | 1.6 | 31 | 847 | 9.1 | 5.4 | 02 | 1.9 | 35 | 847 | 13.4 | 9.5 | 13 | 1.2 | 28 | 847 | -5.9 | 9.5 | 34 | 1.8 | 31 | 847 | -5.0 | -8.2 | 02 | 2.0 | 30 | 847 | 1.3 | -2.8 | 01 | 1.6 | 31 | 847 | 9.1 | 5.4 | 02 | 1.9 | 35 | 847 | 13.4 | 9.5 | 13 | 1.2 | 28 | 847 | -5.9 | 9.5 | 34 | 1.8 | 31 | 847 | -5.0 | -8.2 | 02 | 2.0 | 30 | 847 | 1.3 | -2.8 | 01 | 1.6 | 31 | 847 | 9.1 | 5.4 | 02 | 1.9 | 35 | 847 | 13.4 | 9.5 | 13 | 1.2 | 28 | 847 | -5.9 | 9.5 | 34 | 1.8 | 31 | 847 | -5.0 | -8.2 | 02 | 2.0 | 30 | 847 | 1.3 | -2.8 | 01 | 1.6 | 31 | 847 | 9.1 | 5.4 | 02 | 1.9 | 35 | 847 | 13.4 | 9.5 | 13 | 1.2 | 28 | 847 | -5.9 | 9.5 | 34 | 1.8 | 31 | 847 | -5.0 | -8.2 | 02 | 2.0 | 30 | 847 | 1.3 | -2.8 | 01 | 1.6 | 31 | 847 | 9.1 | 5.4 | 02 | 1.9 | 35 | 847 | 13.4 | 9.5 | 13 | 1.2 |
| 1000 | 28 | 191 | | | | | 31 | 157 | | | | | 30 | 96 | | | | | 31 | 112 | | | | | 35 | 139 | | | | | 28 | 191 | | | | | 31 | 157 | | | | | 30 | 96 | | | | | 31 | 112 | | | | | 35 | 139 | | | | | 28 | 191 | | | | | 31 | 157 | | | | | 30 | 96 | | | | | 31 | 112 | | | | | 35 | 139 | | | | | 28 | 191 | | | | | 31 | 157 | | | | | 30 | 96 | | | | | 31 | 112 | | | | | 35 | 139 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 950 | 28 | 597 | | | | | 31 | 505 | | | | | 30 | 514 | | | | | 31 | 544 | | | | | 35 | 539 | | | | | 28 | 597 | | | | | 31 | 505 | | | | | 30 | 514 | | | | | 31 | 544 | | | | | 35 | 539 | | | | | 28 | 597 | | | | | 31 | 505 | | | | | 30 | 514 | | | | | 31 | 544 | | | | | 35 | 539 | | | | | 28 | 597 | | | | | 31 | 505 | | | | | 30 | 514 | | | | | 31 | 544 | | | | | 35 | 539 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 930 | 28 | 1,024 | -2.4 | -8.7 | 33 | 3.6 | 31 | 992 | -3.7 | -9.1 | 36 | 2.4 | 30 | 952 | 2.7 | -4.4 | 34 | 2.3 | 31 | 1,077 | 12.5 | 4.9 | 31 | 1.9 | 35 | 1,039 | 16.8 | 9.5 | 27 | 1.1 | 28 | 1,024 | -2.4 | -8.7 | 33 | 3.6 | 31 | 992 | -3.7 | -9.1 | 36 | 2.4 | 30 | 952 | 2.7 | -4.4 | 34 | 2.3 | 31 | 1,077 | 12.5 | 4.9 | 31 | 1.9 | 35 | 1,039 | 16.8 | 9.5 | 27 | 1.1 | 28 | 1,024 | -2.4 | -8.7 | 33 | 3.6 | 31 | 992 | -3.7 | -9.1 | 36 | 2.4 | 30 | 952 | 2.7 | -4.4 | 34 | 2.3 | 31 | 1,077 | 12.5 | 4.9 | 31 | 1.9 | 35 | 1,039 | 16.8 | 9.5 | 27 | 1.1 | 28 | 1,024 | -2.4 | -8.7 | 33 | 3.6 | 31 | 992 | -3.7 | -9.1 | 36 | 2.4 | 30 | 952 | 2.7 | -4.4 | 34 | 2.3 | 31 | 1,077 | 12.5 | 4.9 | 31 | 1.9 | 35 | 1,039 | 16.8 | 9.5 | 27 | 1.1 | 28 | 1,024 | -2.4 | -8.7 | 33 | 3.6 | 31 | 992 | -3.7 | -9.1 | 36 | 2.4 | 30 | 952 | 2.7 | -4.4 | 34 | 2.3 | 31 | 1,077 | 12.5 | 4.9 | 31 | 1.9 | 35 | 1,039 | 16.8 | 9.5 | 27 | 1.1 |
| 900 | 28 | 1,481 | -1.4 | -11.3 | 32 | 7.6 | 31 | 1,464 | -3.8 | -9.4 | 36 | 3.0 | 30 | 1,408 | 1.8 | -0.9 | 30 | 3.0 | 31 | 1,677</ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

RAWINSONDE DATA

Average monthly values

DELETED DATA

| OAKLAND, CALIF.
FEB. 1970 1019 MB | | | | | | | | | | | | OAKLAND, CALIF.
MAR. 1970 1017 MB | | | | | | | | | | | | OAKLAND, CALIF.
APR. 1970 1018 MB | | | | | | | | | | | | OAKLAND, CALIF.
MAY 1970 1015 MB | | | | | | | | | | | | OAKLAND, CALIF.
JUNE 1970 1014 MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 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Direction | | | | | | Speed | | | | | | Direction | | | | | | Speed | | | | | | Direction | | | | | | Speed | | | | | | Direction | | | | | | Speed | | | | | | Direction | | | | | | Speed | | | | | | Direction | | | | | | Speed | | | | | | Direction | | | | | | Speed | | | | | | Direction | | | | | | Speed | | | | | | Direction | | | | | | Speed | | | | | | Direction | | | | | | Speed | | | | | | Direction | | | | | | Speed | | | | | | Direction | | | | | | Speed | | | | | | Direction | | | | | | Speed | | | | | | Direction | | | | | | Speed | | | | | | Direction | | | | | | Speed | | | | | | Direction | | | | | | Speed | | | | | | Direction | | | | | | Speed | | | | | | Direction | | | | | | Speed | | | | | | Direction | | | | | | Speed | | | | | | Direction | | | | | | Speed | | | | | | Direction | | | | | | Speed | | | | | | Direction | | | | | | Speed | | | | | | Direction | | | | | | Speed | | | | | | Direction | | | | | | Speed | | | | | | Direction | | | | | | Speed | | | | | | Direction | | | | | | Speed | | | | | | Direction | | | | | | Speed | | | | | | Direction | | | | | | Speed | | | | | | Direction | | | | | | Speed | | | | | | Direction | | | | | | Speed | | | | | | Direction | | | | | | Speed | | | | | | Direction | | | | | | Speed | | | | | | Direction | | | | | | Speed | | | | | | Direction | | | | | | Speed | | | | | | Direction | | | | | | Speed | | | | | | Direction | | | | | | Speed | | | | | | Direction | | | | | | Speed | | | | | | Direction | | | | | | Speed | | | | | | Direction | | | | | | Speed | | | | | | Direction | | | | | | Speed | | | | | | Direction | | | | | | Speed | | | | | | Direction | | | | | | Speed | | | | | | Direction | | | | | | Speed | | | | | | Direction | | | | | | Speed | | | | | | Direction | | | | | | Speed | | | | | | Direction | | | | | | Speed | | | | | | Direction | | | | | | Speed | | | | | | Direction | | | | | | Speed | | | | | | Direction | | | | | | Speed | | | | | | Direction | | | | | | Speed | | | | | | Direction | | | | | | Speed | | | | | | Direction | | | | | | Speed | | | | | | Direction | | | | | | Speed | | | | | | Direction | | | | | | Speed | | | | | | Direction | | | | | | Speed | | | | | | Direction | | | | | | Speed | | | | | | Direction | | | | | | Speed | | | | | | Direction | | | | | | Speed | | | | | | Direction | | | | | | Speed | | | | | | Direction | | | | | | Speed | | | | | | Direction | | | | | | Speed | | | | | | Direction | | | | | | Speed | | | | | | Direction | | | | | | Speed | | | | | | Direction | | | | | | Speed | | | | | | Direction | | | | | | Speed | | | | | | Direction | | | | | | Speed | | | | | | Direction | | | | | | Speed | | | | | | Direction | | | | | | Speed | | | | | | Direction | | | | | | Speed | | | | | | Direction | | | | | | Speed | | | | | | Direction | | | | | | Speed | | | | | | Direction | | | | | | Speed | | | | | | Direction | | | | | | Speed | | | | | | Direction | | | | | | Speed | | | | | | Direction | | | | | | Speed | | | | | | Direction | | | | | | Speed | | | | | | Direction | | | | | | Speed | | | | | | Direction | | | | | | Speed | | | | | | Direction | | | | | | Speed | | | | | | Direction | | | | | | Speed | | | | | | Direction | | | | | | Speed | | | | | | Direction | | | | | | Speed | | | | | | Direction | | | | | | Speed | | | | | | Direction | | | | | | Speed | | | | | | Direction | | | | | | Speed | | | | | | Direction | | | | | | Speed | | | | | | Direction | | | | | | Speed | | | | | | Direction | | | | | | Speed | | | | | | Direction | | | | | | Speed | | | | | | Direction | | | | | | Speed | | | | | | Direction | | | | | | Speed | | | | | | Direction | | | | | | Speed | | | | | | Direction | | | | | | Speed | | | | | | Direction | | | | | | Speed | | | | | | Direction | | | | | | Speed | | | | | | Direction | | | | | | Speed | | | | | | Direction | | | | | | Speed | | | | | | Direction | | | | | | Speed | | | | | | Direction | | | | | | Speed | | | | | | Direction | | | | | | Speed | | | | | | Direction | | | | | |

Average monthly values

| SALEO, ILL.
JUNE 1970 995 MB | | | | | SALE LAKE CITY, UTAH
NOV. 1969 877 MB | | | | | SALE LAKE CITY, UTAH
DEC. 1969 874 MB | | | | | SALE LAKE CITY, UTAH
JAN. 1970 874 MB | | | | | SALE LAKE CITY, UTAH
FEB. 1970 876 MB | | | | | | | | | | | |
|---------------------------------|----|--------|-------|-------|--|------|------|-------|--------|--|----|------|-------|-------|--|-------|----|-------|------|--|--------|-------|----|------|-------|--------|--------|-------|----|------|------|
| SURFACE | 30 | 174 | 17.7 | 10.0 | 1.8 | 1.1 | 30 | 1,288 | .4 | -4.0 | 16 | 2.9 | 31 | 1,288 | -1.6 | -4.7 | 17 | 1.1 | 31 | 1,288 | -.4 | -5.8 | 16 | 3.2 | 28 | 1,288 | .8 | -4.1 | 16 | 2.6 | |
| 1000 | 30 | 127 | | | | 1.1 | 30 | 221 | | | | 31 | 221 | | | | 31 | 193 | | | | | | 28 | 206 | | | | | | |
| 950 | 30 | 989 | 19.3 | 13.2 | 2.3 | 4.0 | 30 | 981 | | | | 31 | 617 | | | | 31 | 627 | | | | | | 28 | 627 | | | | | | |
| 900 | 30 | 1,034 | 17.0 | 11.1 | 2.5 | 4.1 | 30 | 1,080 | | | | 31 | 1,052 | | | | 31 | 1,049 | | | | | | 28 | 1,086 | | | | | | |
| 850 | 30 | 1,520 | 14.1 | 6.6 | 2.5 | 4.4 | 30 | 1,543 | 3.9 | -4.7 | 17 | 2.6 | 31 | 1,509 | .0 | -5.5 | 20 | 1.1 | 31 | 1,508 | .4 | -7.6 | 18 | 4.7 | 28 | 1,528 | 3.2 | -5.9 | 18 | 2.8 | |
| 800 | 30 | 2,030 | 12.0 | 1.5 | 2.5 | 5.0 | 30 | 2,053 | 2.7 | -8.8 | 19 | 3.1 | 31 | 1,995 | -.5 | -8.9 | 23 | 1.9 | 31 | 1,993 | -.4 | -10.7 | 22 | 4.7 | 28 | 2,018 | 1.4 | -8.4 | 19 | 2.7 | |
| 750 | 30 | 2,569 | 9.4 | -.3 | 2.6 | 5.4 | 30 | 2,554 | .1 | -11.8 | 24 | 2.6 | 31 | 2,509 | .3 | -11.4 | 27 | 3.2 | 31 | 2,504 | -.4 | -13.1 | 26 | 5.9 | 28 | 2,535 | -.9 | -11.1 | 25 | 2.9 | |
| 700 | 30 | 3,137 | 6.4 | -.7 | 2.7 | 6.2 | 30 | 3,122 | -.1 | -14.6 | 29 | 4.6 | 31 | 3,052 | -.5 | -14.4 | 29 | 5.2 | 31 | 3,045 | -.7 | -15.1 | 28 | 8.2 | 27 | 3,079 | -.4 | -14.0 | 28 | 4.9 | |
| 650 | 30 | 3,741 | 2.5 | -11.5 | 2.7 | 5.7 | 30 | 3,688 | -.5 | -18.9 | 29 | 5.6 | 31 | 3,629 | -.3 | -18.1 | 29 | 8.0 | 31 | 3,614 | -.2 | -18.0 | 28 | 10.8 | 28 | 3,657 | -.2 | -18.5 | 29 | 6.1 | |
| 600 | 30 | 4,383 | -1.1 | -16.4 | 2.7 | 5.8 | 30 | 4,311 | -.3 | -23.3 | 31 | 7.8 | 31 | 4,244 | -.2 | -20.9 | 30 | 10.4 | 31 | 4,222 | -.2 | -15.7 | 25 | 13.7 | 28 | 4,272 | -.3 | -22.8 | 29 | 6.0 | |
| 550 | 30 | 5,071 | -.5 | -22.4 | 2.7 | 6.3 | 30 | 4,979 | -.3 | -26.7 | 31 | 8.8 | 31 | 4,905 | -.5 | -24.7 | 29 | 11.9 | 31 | 4,873 | -.7 | -25.7 | 29 | 16.1 | 28 | 4,929 | -.7 | -27.8 | 29 | 7.2 | |
| 500 | 30 | 5,811 | -10.4 | -.2 | 2.9 | 6.5 | 30 | 5,698 | -.7 | -31.4 | 31 | 9.8 | 31 | 5,617 | -.2 | -28.8 | 29 | 13.1 | 31 | 5,575 | -.2 | -30.4 | 29 | 18.6 | 28 | 5,638 | -.2 | -32.5 | 29 | 9.2 | |
| 450 | 30 | 6,614 | -15.3 | -3.2 | 2.8 | 7.3 | 30 | 6,492 | -.1 | -35.1 | 31 | 10.7 | 31 | 6,397 | -.1 | -33.1 | 29 | 16.8 | 31 | 6,355 | -.1 | -35.6 | 29 | 22.2 | 28 | 6,423 | -.1 | -37.6 | 29 | 10.1 | |
| 400 | 30 | 7,493 | -18.8 | -3.6 | 2.8 | 8.2 | 30 | 7,329 | -.2 | -41.2 | 31 | 11.8 | 31 | 7,232 | -.3 | -40.4 | 30 | 20.0 | 31 | 7,165 | -.3 | -40.4 | 29 | 23.2 | 28 | 7,237 | -.3 | -43.4 | 30 | 13.1 | |
| 350 | 30 | 8,465 | -29.1 | -.3 | 2.8 | 9.7 | 30 | 8,271 | -.7 | -45.3 | 31 | 11.0 | 31 | 8,165 | -.3 | -45.0 | 30 | 22.2 | 31 | 8,085 | -.4 | -43.7 | 29 | 26.2 | 28 | 8,162 | -.6 | -45.4 | 29 | 15.8 | |
| 300 | 30 | 9,546 | -37.6 | -.4 | 2.8 | 10.7 | 30 | 9,315 | -.5 | 3.3 | 31 | 11.9 | 31 | 9,204 | -.5 | 38.7 | 29 | 24.7 | 31 | 9,110 | -.6 | 39.3 | 29 | 31.0 | 28 | 9,193 | -.8 | 41.1 | 29 | 17.8 | |
| 250 | 30 | 10,779 | -47.2 | | | 28 | 11.3 | 30 | 10,509 | -53.9 | | 31 | 13.1 | 31 | 10,399 | -52.9 | | 29 | 26.9 | 31 | 10,285 | -56.6 | | 32 | 33.6 | 28 | 10,376 | -55.2 | | 29 | 21.1 |
| 200 | 30 | 12,224 | -56.8 | | | 28 | 12.8 | 30 | 11,918 | -60.6 | | 31 | 14.7 | 31 | 11,823 | -59.6 | | 29 | 30.2 | 31 | 11,709 | -62.7 | | 32 | 37.0 | 28 | 11,802 | -60.4 | | 29 | 24.0 |
| 175 | 30 | 13,095 | -60.3 | | | 29 | 14.1 | 30 | 12,746 | -62.4 | | 31 | 14.8 | 31 | 12,666 | -58.0 | | 29 | 34.2 | 31 | 12,528 | -58.0 | | 29 | 39.1 | 28 | 12,615 | -59.6 | | 29 | 23.5 |
| 150 | 30 | 14,022 | -61.7 | | | 29 | 11.1 | 30 | 13,697 | -62.3 | | 29 | 14.9 | 30 | 13,633 | -57.9 | | 29 | 22.5 | 31 | 13,502 | -57.2 | | 29 | 24.9 | 28 | 13,579 | -59.3 | | 29 | 22.0 |
| 125 | 30 | 15,151 | -61.1 | | | 30 | 8.2 | 30 | 14,822 | -62.8 | | 29 | 15.4 | 29 | 14,779 | -57.9 | | 29 | 19.0 | 31 | 14,652 | -58.8 | | 29 | 22.2 | 28 | 14,719 | -60.4 | | 28 | 20.3 |
| 100 | 30 | 16,525 | -62.9 | | | 32 | 4.7 | 30 | 16,196 | -62.8 | | 29 | 12.6 | 28 | 16,175 | -60.3 | | 29 | 13.6 | 31 | 16,047 | -60.4 | | 29 | 19.2 | 28 | 16,103 | -62.7 | | 28 | 17.1 |
| 75 | 30 | 17,931 | -61.7 | | | 02 | 2.5 | 28 | 17,567 | -62.8 | | 29 | 10.2 | 28 | 17,505 | -60.5 | | 29 | 12.0 | 30 | 17,379 | -60.4 | | 29 | 15.9 | 28 | 17,446 | -62.7 | | 28 | 13.7 |
| 50 | 30 | 18,731 | -60.0 | | | 04 | 3.1 | 28 | 18,396 | -61.2 | | 19 | 8.3 | 28 | 18,398 | -60.1 | | 31 | 5.9 | 30 | 18,205 | -61.1 | | 30 | 8.6 | 28 | 18,291 | -62.7 | | 29 | 11.0 |
| 25 | 30 | 19,691 | -57.8 | | | 00 | 2.8 | 28 | 19,354 | -60.2 | | 30 | 6.1 | 28 | 19,362 | -59.4 | | 34 | 4.1 | 29 | 19,222 | -61.1 | | 33 | 7.4 | 25 | 19,243 | -62.3 | | 30 | 8.9 |
| 0 | 30 | 20,848 | -55.6 | | | 08 | 5.1 | 27 | 20,489 | -59.8 | | 30 | 5.1 | 28 | 20,508 | -58.0 | | 02 | 7.9 | 29 | 20,358 | -60.4 | | 32 | 4.5 | 25 | 20,371 | -61.5 | | 30 | 7.4 |
| | 40 | 22,277 | -53.2 | | | 09 | 6.2 | 27 | 21,885 | -59.2 | | 31 | 5.7 | 28 | 21,918 | -57.0 | | 05 | 7.7 | 28 | 21,751 | -59.1 | | 33 | 2.9 | 24 | 21,762 | -60.7 | | 31 | 6.4 |
| | 30 | 26,147 | -50.0 | | | 09 | 6.1 | 24 | 23,707 | -57.7 | | 31 | 5.4 | 25 | 23,749 | -55.4 | | 05 | 8.2 | 25 | 23,595 | -59.2 | | 35 | 4.0 | 23 | 23,597 | -60.4 | | 32 | 4.0 |
| | 30 | 27,559 | -50.3 | | | 11 | 6.3 | 23 | 26,863 | -57.0 | | 30 | 6.6 | 25 | 26,903 | -55.0 | | 05 | 8.0 | 24 | 26,796 | -59.2 | | 35 | 3.6 | 19 | 24,700 | -59.5 | | 31 | 6.4 |
| | 30 | 28,826 | -46.1 | | | 08 | 7.3 | 23 | 26,276 | -56.5 | | 30 | 8.5 | 25 | 26,326 | -55.2 | | 05 | 9.7 | 15 | 26,101 | -59.3 | | 34 | 8.2 | 15 | 26,123 | -58.6 | | 31 | 5.2 |
| | 15 | 28,751 | -43.2 | | | 09 | 7.8 | 21 | 28,116 | -55.3 | | 29 | 12.1 | 14 | 28,195 | -53.4 | | 03 | 11.0 | 7 | 27,941 | -56.7 | | 38 | 8 | 27,932 | -56.2 | | | | |

- 547 -

Average monthly values

DELAYED DATA

[illegible][illegible][illegible]

Note: All observations scheduled at 1200, G. C. T. Pressures shown under station names are the average monthly station pressures for the month of record, corrected to the height of the floors of the instrument shelters used for rawinsonde purposes. "Number of observations" refers to those of dynamic height only. Although the number of temperature observations at any given pressure surface is usually the same as for height, it is possible for temperature observations at one or more pressure surfaces of some observations. Dew Point averages are limited to those of dynamic height only, and are not shown below 40°C. Observations of wind speed and direction are sometimes lost due to limiting angles, i.e., elevation angles less than 6° above the horizon, or any obstruction above the horizon.

The temperature and wind data were based on 15 and 5 mo observations at the surface or 5 observations at a standard pressure level for temperature and 10 for wind. Dew Point data are not published for standard pressure surfaces for which less than 5 observations are available. Dew Point data are computed and expressed on the basis of vapor pressure over water. Unless otherwise indicated, they are obtained from carbon hygroscopic. These average values for standard pressure surfaces were obtained by rawinsondes; dynamic height (geopotential) in units of .98 dynamic meter, temperature and dew point in degrees Celsius, and resultant winds in tens of degrees and meters per second.

* Rawinsondes at this station were equipped with hypsometers to permit more accurate evaluations of pressure, and consequently height, at pressures lower than 50 mb. These rawinsondes were carried aloft by special high altitude balloons, in an effort to consistently reach higher altitudes.

+ Observations for these stations are scheduled at 0000 G.C.T.

¹ Dew Point temperatures are based on a minimum of 5 observations. Therefore, due to the lesser number of Dew Point observations at the surface and higher levels comparison with dry-bulb temperatures should be made with care. Dew Point temperatures replaced Relative Humidity January 1967.

SOLAR RADIATION TOTALS

Daily totals and monthly averages of solar radiation (direct and diffuse) received on a horizontal surface, tabulated in langley's.

STATION DATA

| Station | Day of month | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------|--------------|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|-----|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | Avg. | | |
| SEPTEMBER 1960 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| STATE COLLEGE PENN. | --- | --- | --- | --- | --- | --- | --- | 69 | 218 | 180 | 247 | 283 | 242 | 241 | 242 | 206 | 200 | 281 | 96 | 122 | 107 | 311 | 243 | --- | 88 | 211 | 244 | 193 | 184 | 248 | 226 | --- | 212 | |
| OCTOBER 1960 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| STATE COLLEGE PENN. | 226 | 6 | 53 | 237 | 240 | 240 | 60 | 270 | 201 | 280 | 247 | 213 | 237 | 187 | 261 | 101 | 129 | 246 | 76 | 210 | 47 | 182 | 197 | 260 | 178 | 163 | 163 | 83 | 104 | 228 | 230 | 104 | 180 | |
| NOVEMBER 1960 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| STATE COLLEGE PENN. | 68 | 124 | 74 | 122 | 147 | 162 | 11 | 36 | 88 | 17 | 38 | 84 | 140 | 27 | 114 | 132 | 138 | 80 | 40 | 124 | --- | 64 | 64 | 164 | 164 | 164 | 92 | 162 | 228 | 140 | 20 | 43 | 24 | |
| JANUARY 1961 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BLUE HILL MS. | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | |
| STATE COLLEGE PENN. | 93 | 113 | 87 | 169 | 166 | 84 | 113 | 178 | 206 | 129 | 112 | 86 | 197 | 263 | 177 | 193 | 69 | 86 | 149 | 1 | 221 | 154 | 148 | 144 | 178 | 260 | 70 | 36 | 92 | 218 | 30 | 187 | 248 | 180 |
| FEBRUARY 1961 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| STATE COLLEGE PENN. | 268 | 30 | 48 | 218 | 166 | 162 | 224 | 13 | 30 | 39 | 173 | 203 | 171 | 166 | 263 | 261 | 320 | 320 | 171 | 314 | 202 | 157 | 403 | 440 | 153 | 611 | 103 | 390 | --- | --- | --- | 230 | | |
| MARCH 1961 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| STATE COLLEGE PENN. | 147 | 106 | 676 | 104 | 681 | 93 | 333 | 524 | 178 | 440 | 626 | 676 | 611 | 40 | 664 | 408 | 452 | 579 | 117 | 242 | 300 | 503 | 100 | 194 | 463 | 682 | 586 | 586 | 348 | 445 | 422 | --- | 180 | |
| APRIL 1961 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| STATE COLLEGE PENN. | 542 | 503 | 130 | 109 | 586 | 378 | 400 | 474 | 391 | 385 | 449 | 456 | 379 | 280 | 461 | 480 | 60 | 56 | 450 | 450 | 411 | 471 | 433 | 684 | 684 | 680 | 101 | 490 | 703 | 703 | 702 | 438 | 467 | |
| MAY 1961 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| STATE COLLEGE PENN. | 648 | 610 | 746 | 787 | 802 | 482 | 502 | 401 | 264 | 148 | 644 | 814 | 794 | 794 | 724 | 494 | 614 | 874 | 402 | 707 | 707 | 612 | 463 | 718 | 718 | 708 | 777 | 718 | 698 | 488 | 850 | --- | 4400 | |
| JUNE 1961 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| STATE COLLEGE PENN. | 548 | 548 | 716 | 800 | 786 | 746 | 768 | 764 | 677 | 744 | 764 | 743 | 743 | 710 | 747 | 736 | 740 | 740 | 723 | 710 | 710 | 710 | 710 | 710 | 710 | 710 | 710 | 710 | 710 | 710 | 710 | 710 | 710 | |
| JULY 1961 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| STATE COLLEGE PENN. | 226 | 54 | 117 | 151 | 151 | 151 | 151 | 151 | 151 | 151 | 151 | 151 | 151 | 151 | 151 | 151 | 151 | 151 | 151 | 151 | 151 | 151 | 151 | 151 | 151 | 151 | 151 | 151 | 151 | 151 | 151 | 151 | 151 | |
| AUGUST 1961 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| STATE COLLEGE PENN. | 268 | 30 | 48 | 218 | 166 | 162 | 224 | 13 | 30 | 39 | 173 | 203 | 171 | 166 | 263 | 261 | 320 | 320 | 171 | 314 | 202 | 157 | 403 | 440 | 153 | 611 | 103 | 390 | --- | --- | --- | 230 | | |
| SEPTEMBER 1961 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| STATE COLLEGE PENN. | 147 | 106 | 676 | 104 | 681 | 93 | 333 | 524 | 178 | 440 | 626 | 676 | 611 | 40 | 664 | 408 | 452 | 579 | 117 | 242 | 300 | 503 | 100 | 194 | 463 | 682 | 586 | 586 | 348 | 445 | 422 | --- | 180 | |
| OCTOBER 1961 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| STATE COLLEGE PENN. | 542 | 503 | 130 | 109 | 586 | 378 | 400 | 474 | 391 | 385 | 449 | 456 | 379 | 280 | 461 | 480 | 60 | 56 | 450 | 450 | 411 | 471 | 433 | 684 | 684 | 680 | 101 | 490 | 703 | 703 | 702 | 438 | 467 | |
| NOVEMBER 1961 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| STATE COLLEGE PENN. | 648 | 610 | 746 | 787 | 802 | 482 | 502 | 401 | 264 | 148 | 644 | 814 | 794 | 794 | 724 | 494 | 614 | 874 | 402 | 707 | 707 | 612 | 463 | 718 | 718 | 708 | 777 | 718 | 698 | 488 | 850 | --- | 4400 | |
| DECEMBER 1961 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| STATE COLLEGE PENN. | 548 | 548 | 716 | 800 | 786 | 746 | 768 | 764 | 677 | 744 | 764 | 743 | 743 | 710 | 747 | 736 | 740 | 740 | 723 | 710 | 710 | 710 | 710 | 710 | 710 | 710 | 710 | 710 | 710 | 710 | 710 | 710 | 710 | |
| JANUARY 1962 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| STATE COLLEGE PENN. | 226 | 54 | 117 | 151 | 151 | 151 | 151 | 151 | 151 | 151 | 151 | 151 | 151 | 151 | 151 | 151 | 151 | 151 | 151 | 151 | 151 | 151 | 151 | 151 | 151 | 151 | 151 | 151 | 151 | 151 | 151 | 151 | 151 | |
| FEBRUARY 1962 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| STATE COLLEGE PENN. | 268 | 30 | 48 | 218 | 166 | 162 | 224 | 13 | 30 | 39 | 173 | 203 | 171 | 166 | 263 | 261 | 320 | 320 | 171 | 314 | 202 | 157 | 403 | 440 | 153 | 611 | 103 | 390 | --- | --- | --- | 230 | | |
| MARCH 1962 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| STATE COLLEGE PENN. | 147 | 106 | 676 | 104 | 681 | 93 | 333 | 524 | 178 | 440 | 626 | 676 | 611 | 40 | 664 | 408 | 452 | 579 | 117 | 242 | 300 | 503 | 100 | 194 | 463 | 682 | 586 | 586 | 348 | 445 | 422 | --- | 180 | |
| APRIL 1962 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| STATE COLLEGE PENN. | 542 | 503 | 130 | 109 | 586 | 378 | 400 | 474 | 391 | 385 | 449 | 456 | 379 | 280 | 461 | 480 | 60 | 56 | 450 | 450 | 411 | 471 | 433 | 684 | 684 | 680 | 101 | 490 | 703 | 703 | 702 | 438 | 467 | |
| MAY 1962 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| STATE COLLEGE PENN. | 648 | 610 | 746 | 787 | 802 | 482 | 502 | 401 | 264 | 148 | 644 | 814 | 794 | 794 | 724 | 494 | 614 | 874 | 402 | 707 | 707 | 612 | 463 | 718 | 718 | 708 | 777 | 718 | 698 | 488 | 850 | --- | 4400 | |
| JUNE 1962 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| STATE COLLEGE PENN. | 548 | 548 | 716 | 800 | 786 | 746 | 768 | 764 | 677 | 744 | 764 | 743 | 743 | 710 | 747 | 736 | 740 | 740 | 723 | 710 | 710 | 710 | 710 | 710 | 710 | 710 | 710 | 710 | 710 | 710 | 710 | 710 | 710 | |
| JULY 1962 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| STATE COLLEGE PENN. | 226 | 54 | 117 | 151 | 151 | 151 | 151 | 151 | 151 | 151 | 151 | 151 | 151 | 151 | 151 | 151 | 151 | 151 | 151 | 151 | 151 | 151 | 151 | 151 | 151 | 151 | 151 | 151 | 151 | 151 | 151 | 151 | 151 | |
| AUGUST 1962 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| STATE COLLEGE PENN. | 268 | 30 | 48 | 218 | 166 | 162 | 224 | 13 | 30 | 39 | 173 | 203 | 171 | 166 | 263 | 261 | 320 | 320 | 171 | 314 | 202 | 157 | 403 | 440 | 153 | 611 | 103 | 390 | --- | --- | --- | 230 | | |
| SEPTEMBER 1962 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| STATE COLLEGE PENN. | 147 | 106 | 676 | 104 | 681 | 93 | 333 | 524 | 178 | 440 | 626 | 676 | 611 | 40 | 664 | 408 | 452 | 579 | 117 | 242 | 300 | 503 | 100 | 194 | 463 | 682 | 586 | 586 | 348 | 445 | 422 | --- | 180 | |
| OCTOBER 1962 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| STATE COLLEGE PENN. | 542 | 503 | 130 | 109 | 586 | 378 | 400 | 474 | 391 | 385 | 449 | 456 | 379 | 280 | 461 | 480 | 60 | 56 | 450 | 450 | 411 | 471 | 433 | 684 | 684 | 680 | 101 | 490 | 703 | 703 | 702 | 438 | 467 | |
| NOVEMBER 1962 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| STATE COLLEGE PENN. | 648 | 610 | 746 | 787 | 802 | 482 | 502 | 401 | 264 | 148 | 644 | 814 | 794 | 794 | 724 | 494 | 614 | 874 | 402 | 707 | 707 | 612 | 463 | 718 | 718 | 708 | 777 | 718 | 698 | 488 | 850 | --- | 4400 | |
| DECEMBER 1962 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| STATE COLLEGE PENN. | 548 | 548 | 716 | 800 | 786 | 746 | 768 | 764 | 677 | 744 | 764 | 743 | 743 | 710 | 747 | 736 | 740 | 740 | 723 | 710 | 710 | 710 | 710 | 710 | 710 | 710 | 710 | 710 | 710 | 710 | 710 | 710 | 710 | |
| JANUARY 1963 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| STATE COLLEGE PENN. | 226 | 54 | 117 | 151 | 151 | 151 | 151 | 151 | 151 | 151 | 151 | 151 | 151 | 151 | 151 | 151 | 151 | 151 | 151 | 151 | 151 | 151 | 151 | 151 | 151 | 151 | 151 | 151 | 151 | 151 | 151 | 151 | 151 | |
| FEBRUARY 1963 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| STATE COLLEGE PENN. | 268 | 30 | 48</ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Note: Figures in this table are based on data received from the National Solar Radiation Data Center. Figures are given in langley's per square centimeter. F indicates urban sites.

The solar radiation data in this table form the basis for the analyses in Charts VII, A, and B, of this publication. The analyses include adjustments required to bring station records to approximately the same level of calibration.

Daily totals and monthly averages of solar radiation (direct and diffuse) received on a horizontal surface, tabulated in langley's.

Note. --Langley is the unit used to denote one gram calorie per square centimeter. Values with an asterisk are interpolated.

[illegible]

| Station | Day of month | | | | | | | | | | | | 29 | 30 | 31 | | | | | | | | | | | | | | | |
|---------------------|--------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | | | | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 |
| FEBRUARY 1970 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| AMUNDSEN-SCOTT | 20254 | 20255 | 20254 | 20248 | 32282 | 20270 | 20254 | 20262 | 20260 | 20263 | 20262 | 20256 | 20251 | 20226 | 20259 | 20253 | 20247 | - | - | 20224 | 20236 | 20242 | 20217 | - | - | 20216 | - | - | - | - |
| JUNE 1970 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| WALLOPS ISLAND, VA. | 00327 | 00343 | 00346 | --- | 00336 | 00383 | 00358 | 00361 | 00380 | 00348 | 00350 | 00371 | 00364 | 00431 | 00376 | 00350 | 00346 | 00335 | 00356 | 00355 | 06334 | 00400 | 00387 | 00341 | 00335 | --- | 00347 | 00384 | 00340 | 00325 |

C O R R E C T I O N S

| | |
|-------------------------|--|
| Annual 1966-1969 | General Summary of Tornadoes Table 3, Total deaths should be 99 for 1966. |
| Page 283: Oregon | Month: June 1967
Storm Summary: Tornadoes; Number 1, Days 1. |
| Page 662: Hawaii | Month: December 1969
Observed Extremes Table: Highest Temperature 91° on the 6th at Makahuena Point 940.1, Kauai. |
| Page 5: Wisconsin | Month: January 1970
Observed Extremes Table: Greatest 1 day precipitation .97 on the 28th at Rest Lake. |
| Page 60: Montana | Month: February 1970
Observed Extremes Table: Least total precipitation .00 at 6 stations. |
| Page 77: Florida | Month: February 1970
Storm Summary: Tornadoes; Number should be 8 instead 7. |
| Page 113: Montana | Month: March 1970
Observed Extremes Table: Least total precipitation .00 at 2 stations. |
| Page 239: Oregon | Month: May 1970
Storm Summary: Tornadoes; Number 1, Days 1. |
| Page 353: New Hampshire | Month: July 1970
Storm Summary: Tornadoes; Number 2, Days 2, Injuries ?, Damage 5. |
| Page 418: New Hampshire | Month: August 1970
Storm Summary: Windstorms; Injuries 0. |

Chart 1. A. Normal Daily Average Temperature (°F. 1931-60), December



B. Temperature Departure from 30 - Year Mean (°F 1931-60), December 1970.

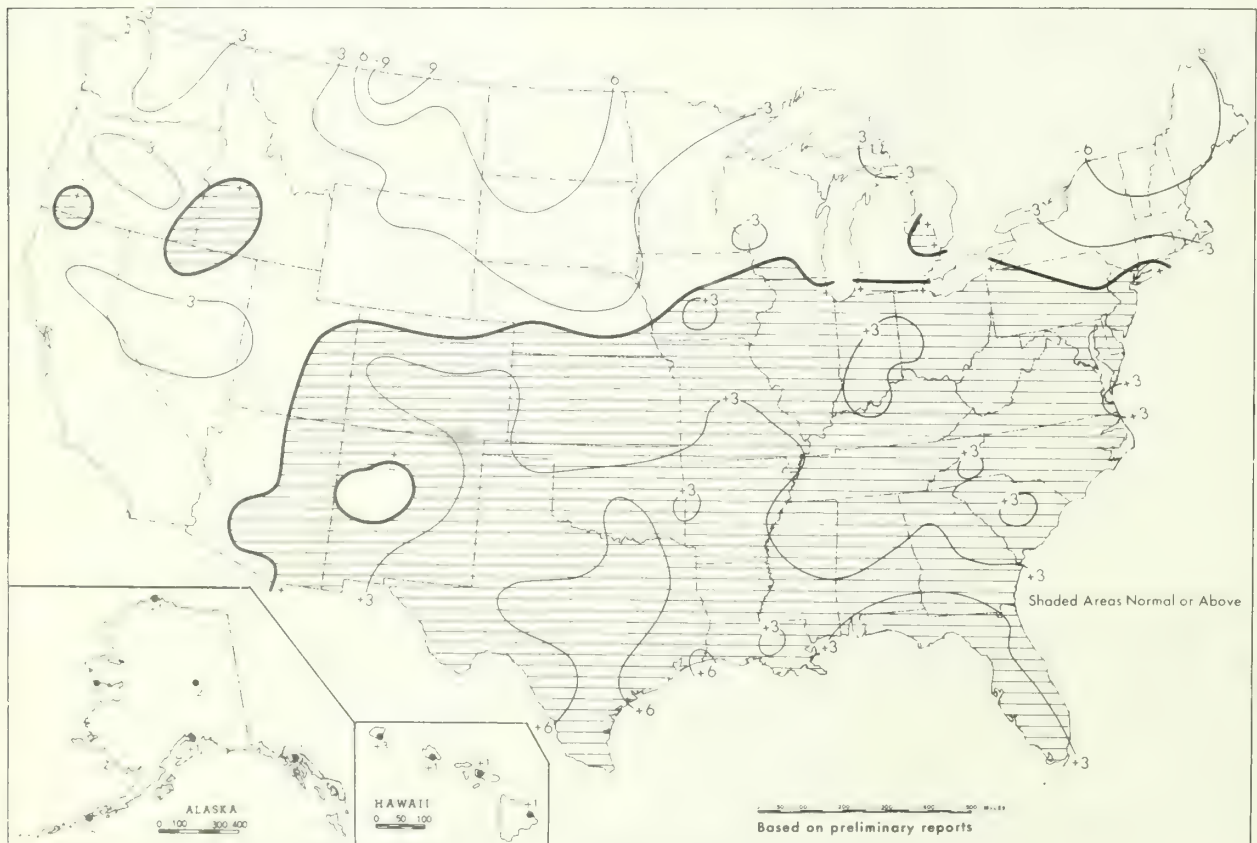


Chart II. Total Precipitation (Inches), December 1970.

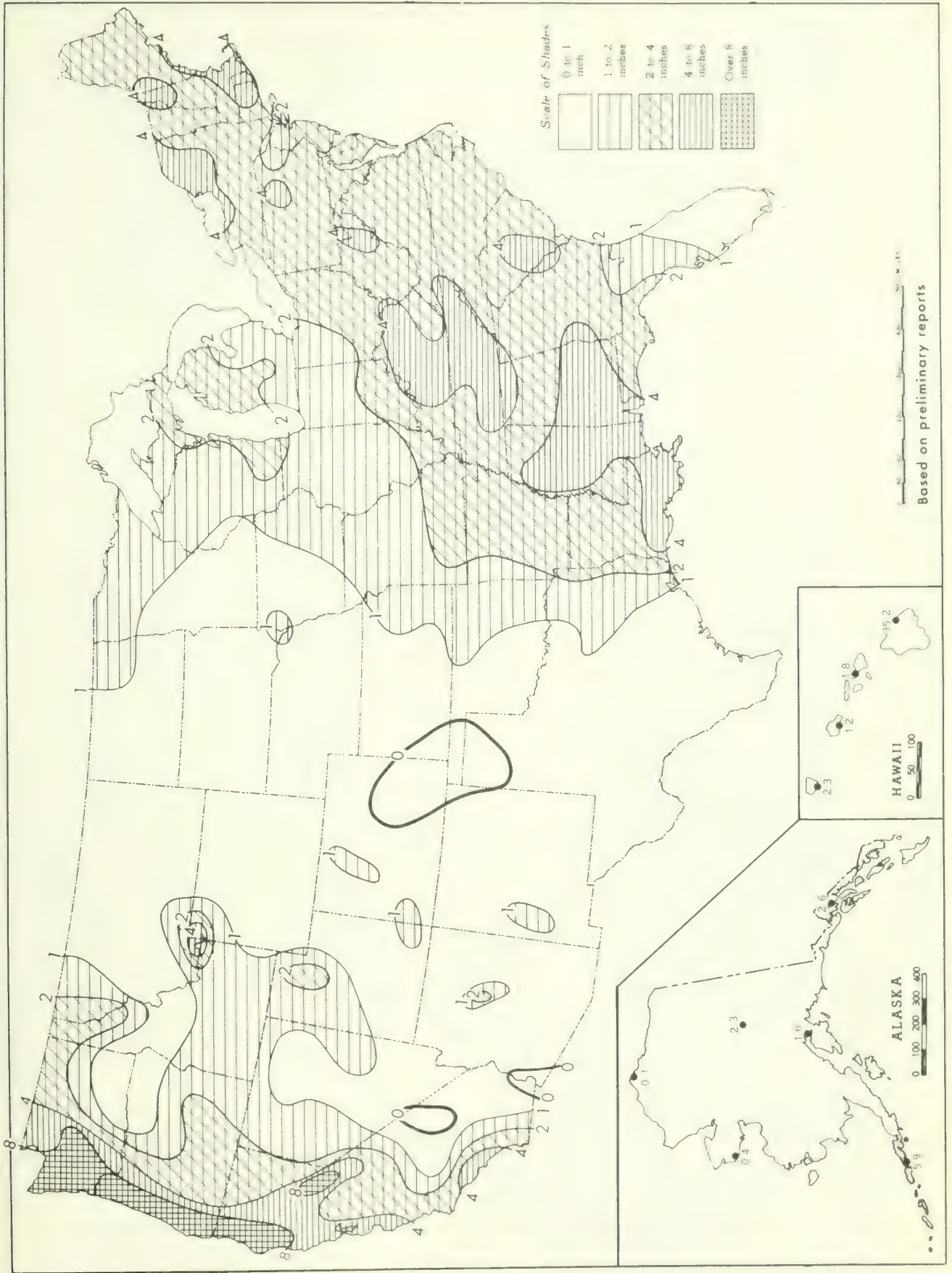


Chart III. Percentage of Normal Precipitation, December 1970.

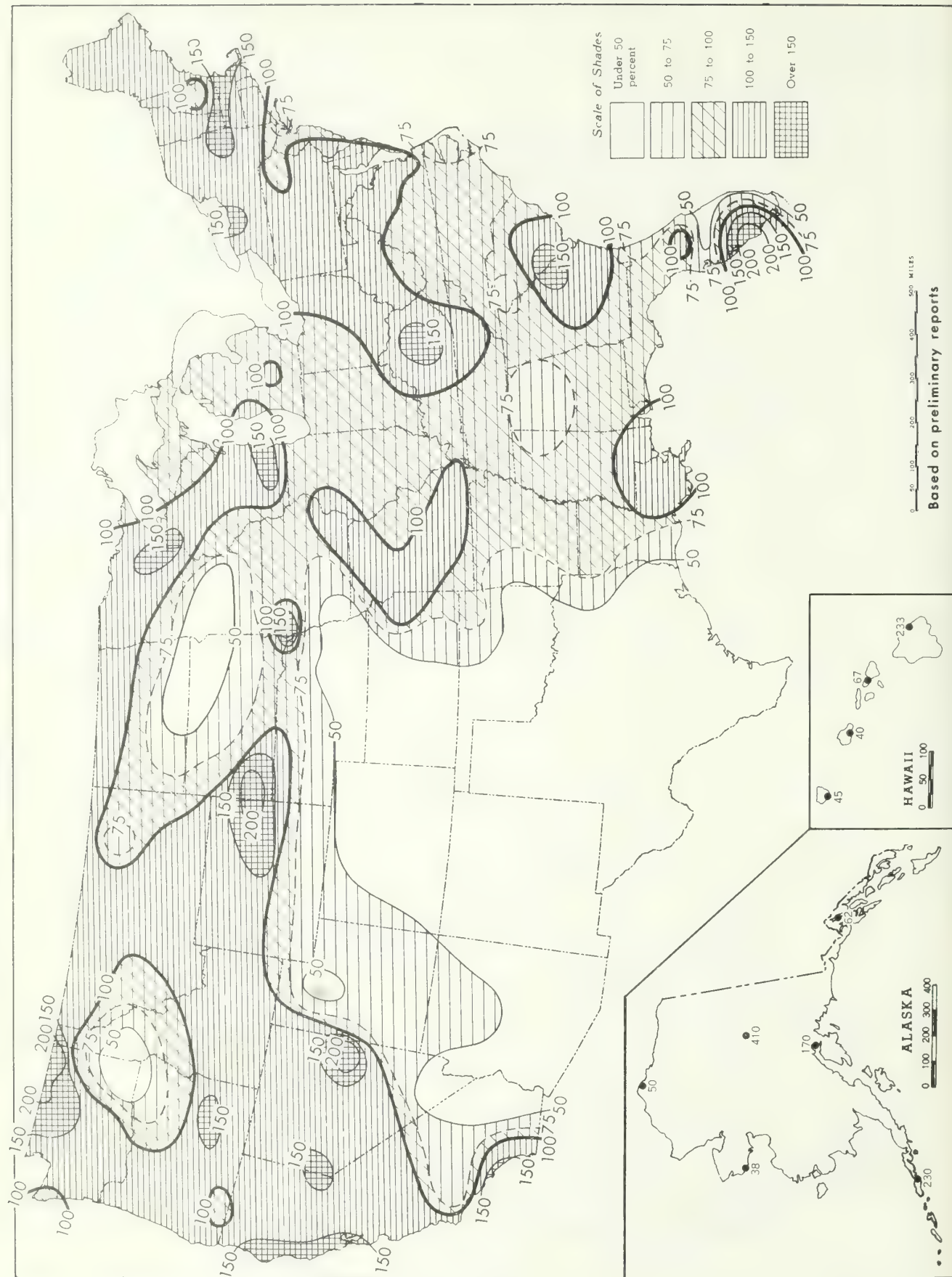
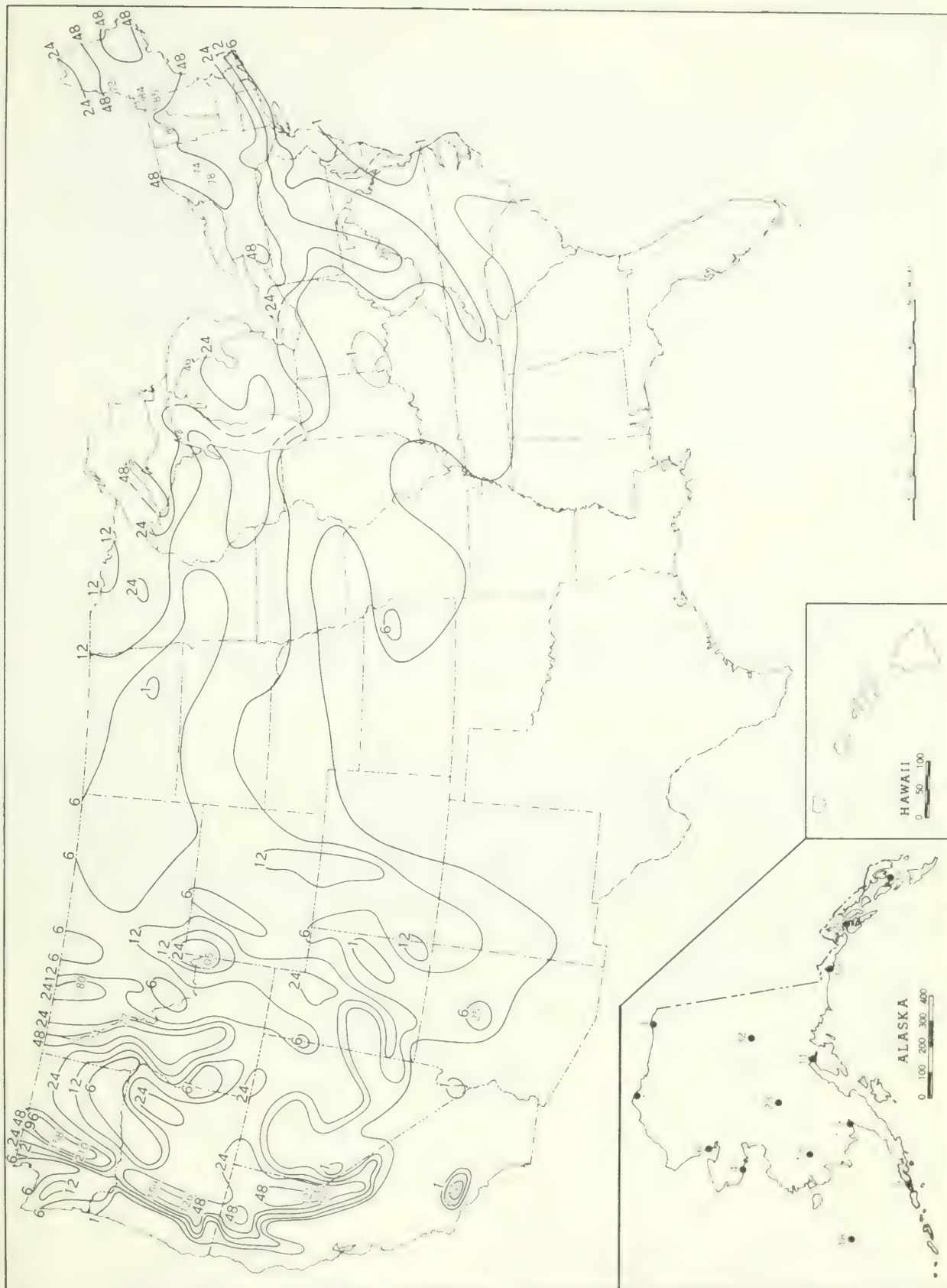
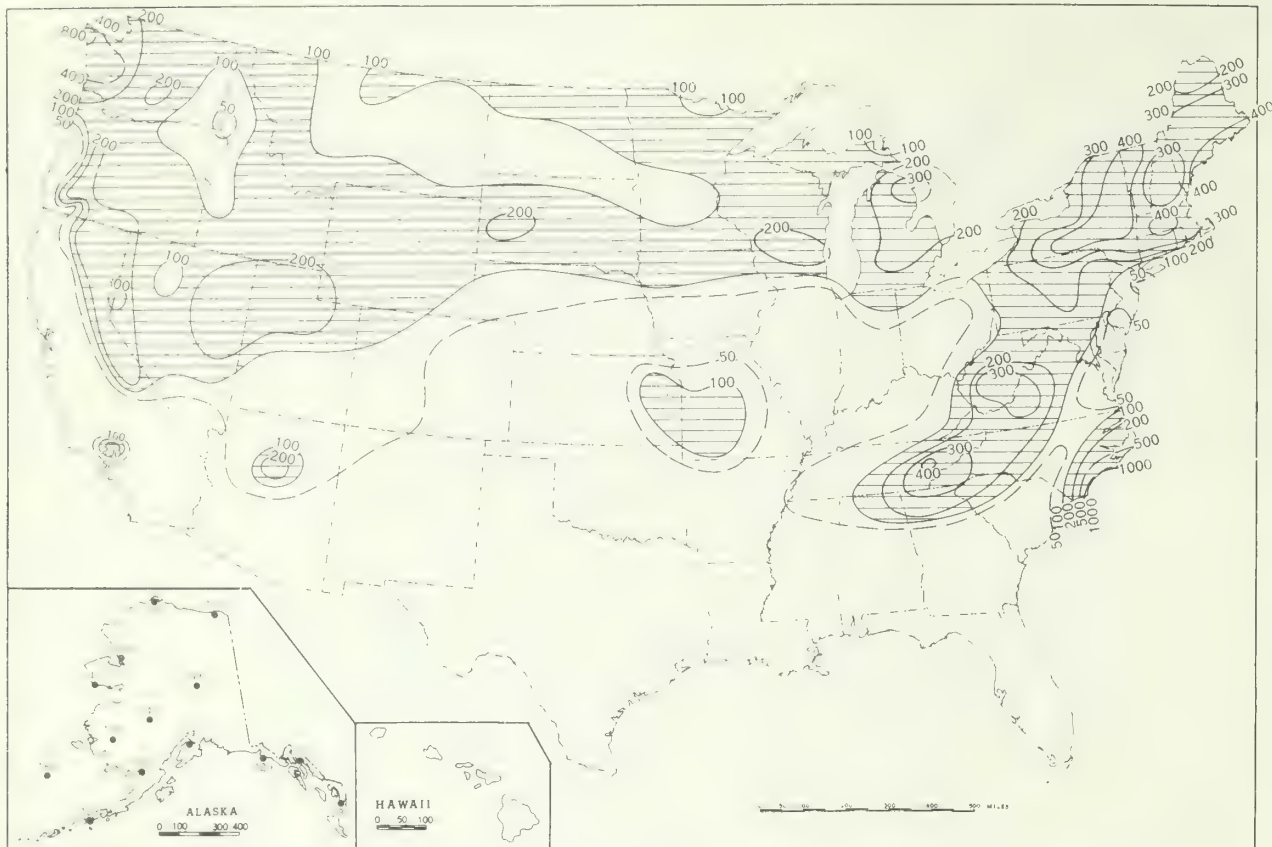


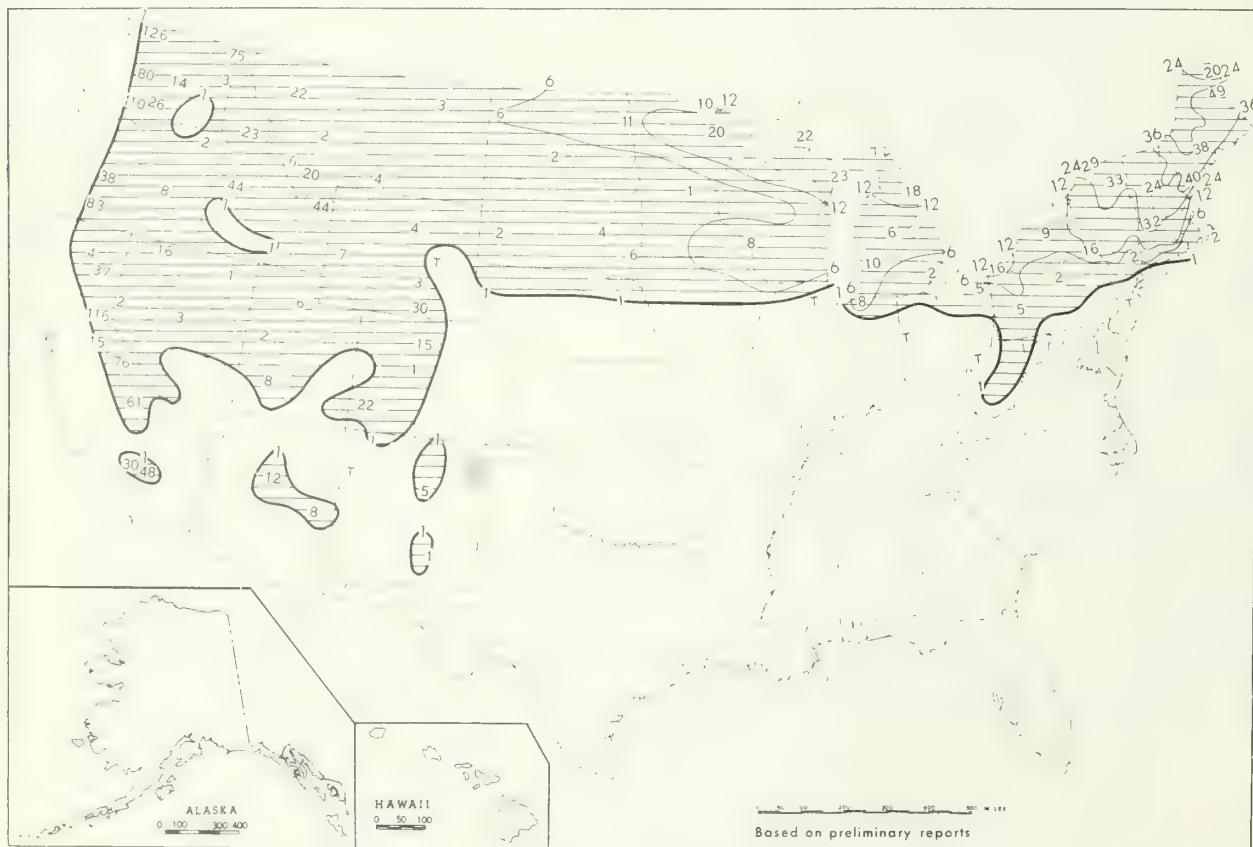
Chart IV. Total Snowfall (Inches), December 1970.



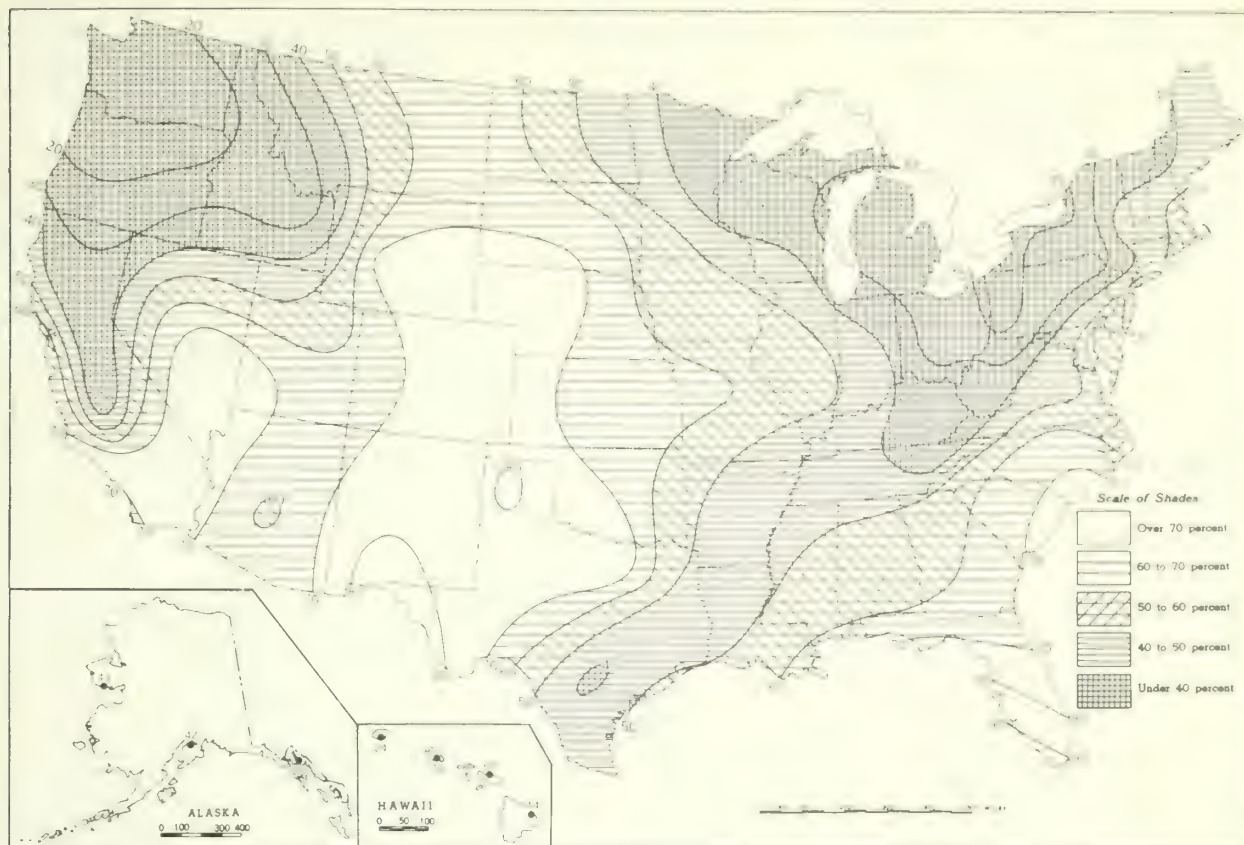
This is the total of unmelted snowfall recorded during the month at Weather Bureau and selected cooperative stations. This Chart and Chart V are published only for the months of November through April, although of course there is some snow at higher elevations, particularly in the far West, earlier and later in the year.



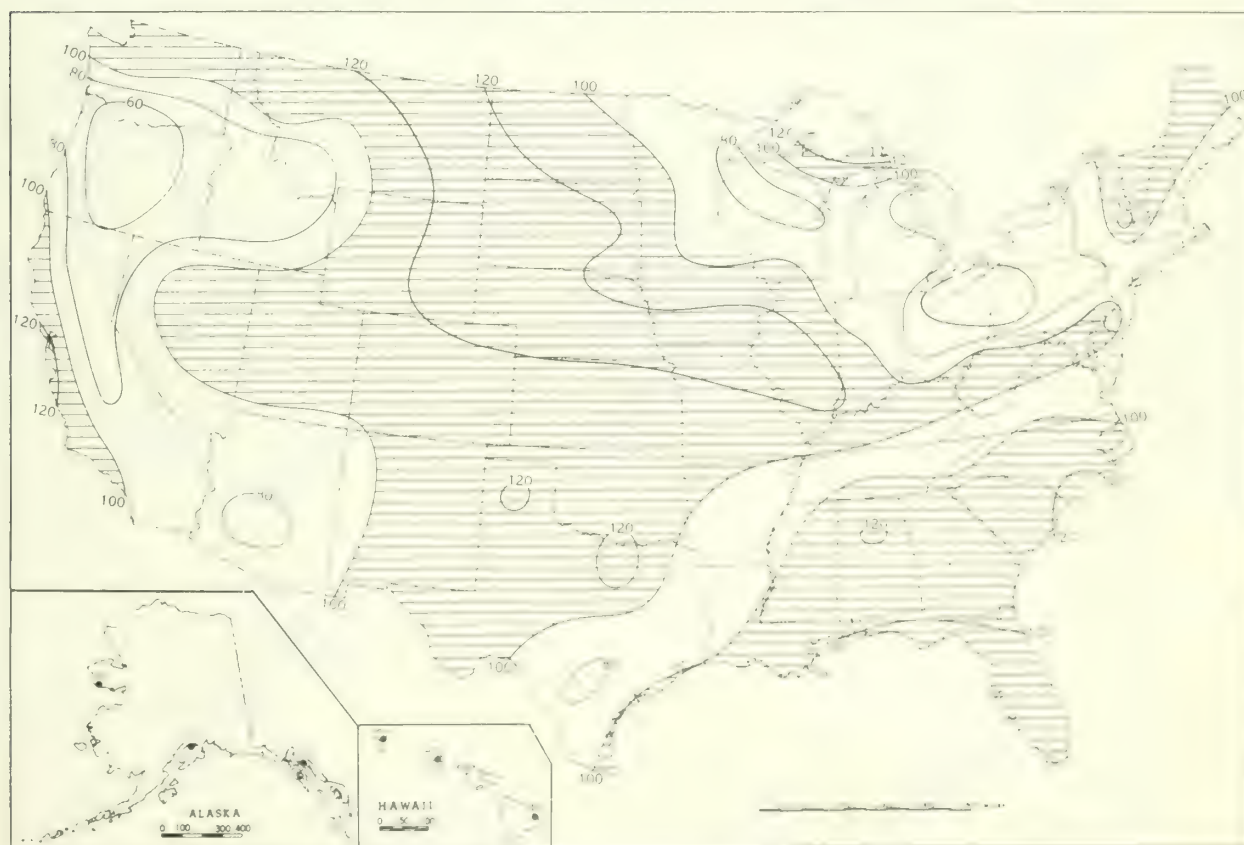
B. Depth of Snow on Ground (Inches), 7:00 a.m. E. S. T., December 1970.



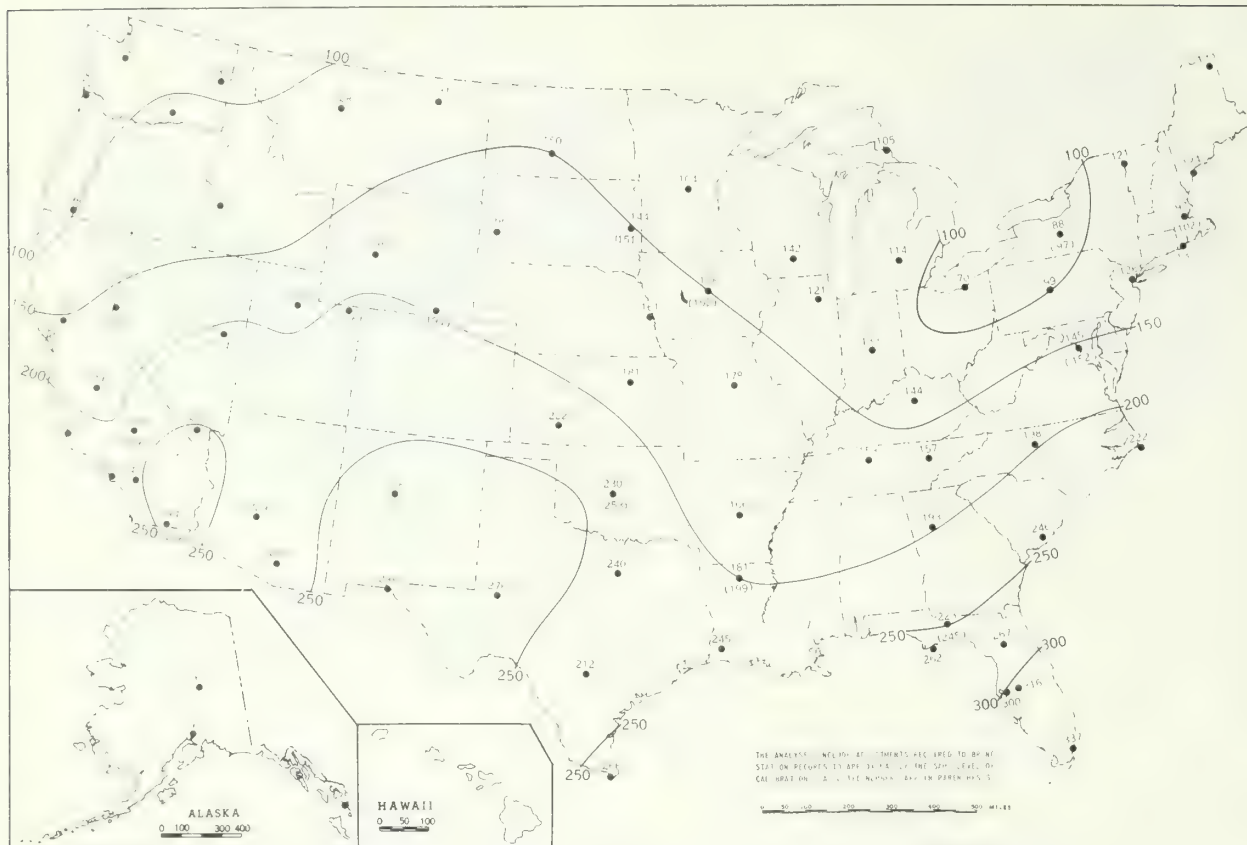
- A. Amount of mean monthly snowfall is computed for Weather Bureau stations having at least 10 years of record.
 B. Shows depth currently on ground at 7:00 a.m. E.S.T., of the Monday nearest the end of the month.
 It is based on reports from Weather Bureau and selected cooperative stations.



B. Percentage of Mean Monthly Sunshine, December 1970.



A. Computed from total number of hours of observed sunshine in relation to total number of possible hours of sunshine during month. B. Means are computed for stations having at least 10 years of record.

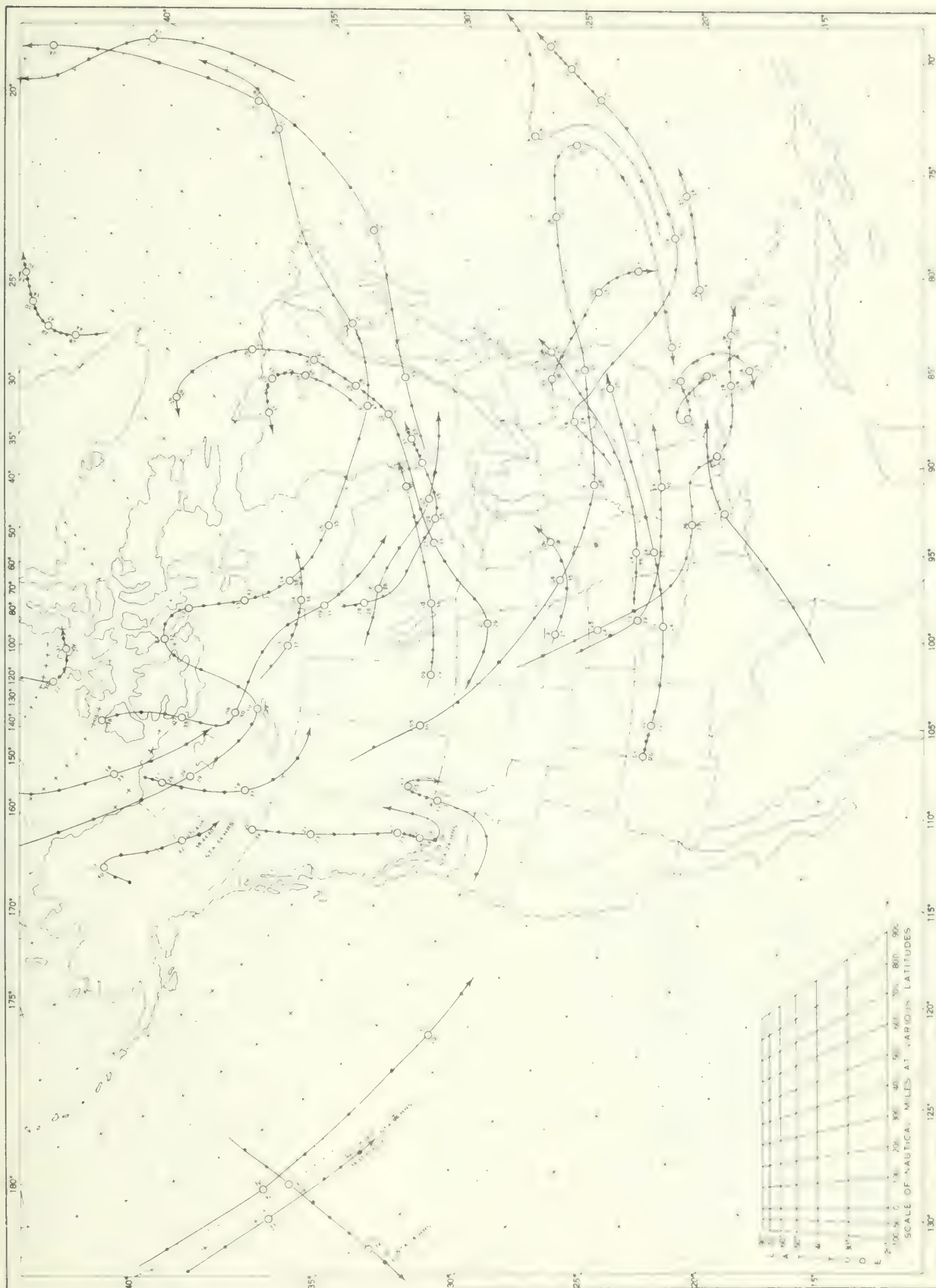


B. Percentage of Mean Daily Solar Radiation, December 1970.



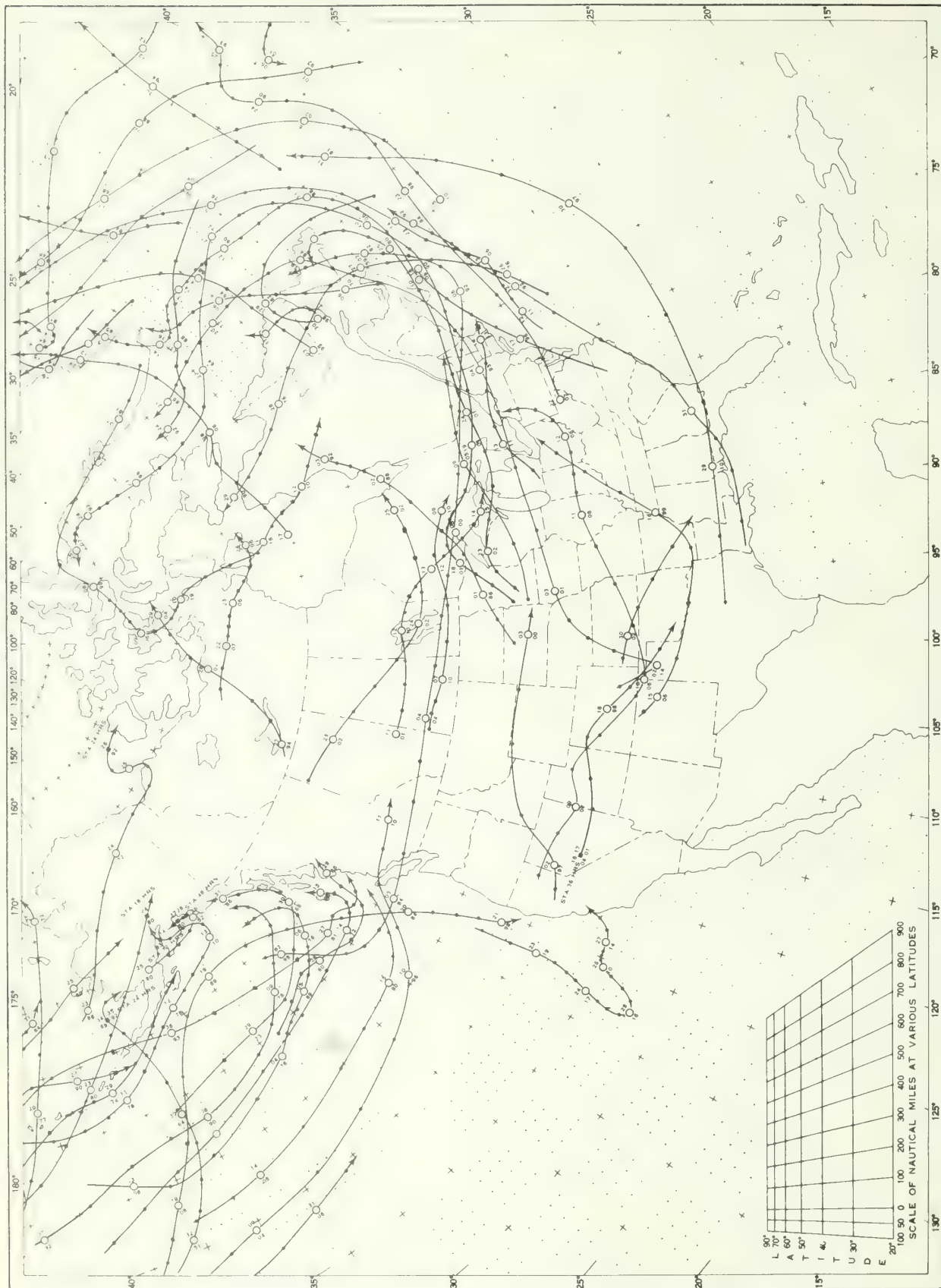
A. Mean daily solar radiation, direct + diffuse, received on a horizontal surface in langleys (1 langley = 1 gm. cal. cm.⁻²) and recorded in International Pyrheliometer Scale of 1956. B. Percentage of the mean based on at least 5 years of record during the period 1950-60, and corrected to the International Pyrheliometer Scale of 1956.

Chart VIII. Tracks of Centers of Anticyclones at Sea Level, December 1970.



Circle indicates position of center at 7:00 a.m. E.S.T. Figure above circle indicates date, figure below, pressure to nearest millibar
 Dots indicate intervening 6-hourly positions. Squares indicate position of stationary center for period shown. Dashed line in track
 indicates reformation at new position. Only those centers which could be identified for 24 hours or more are included

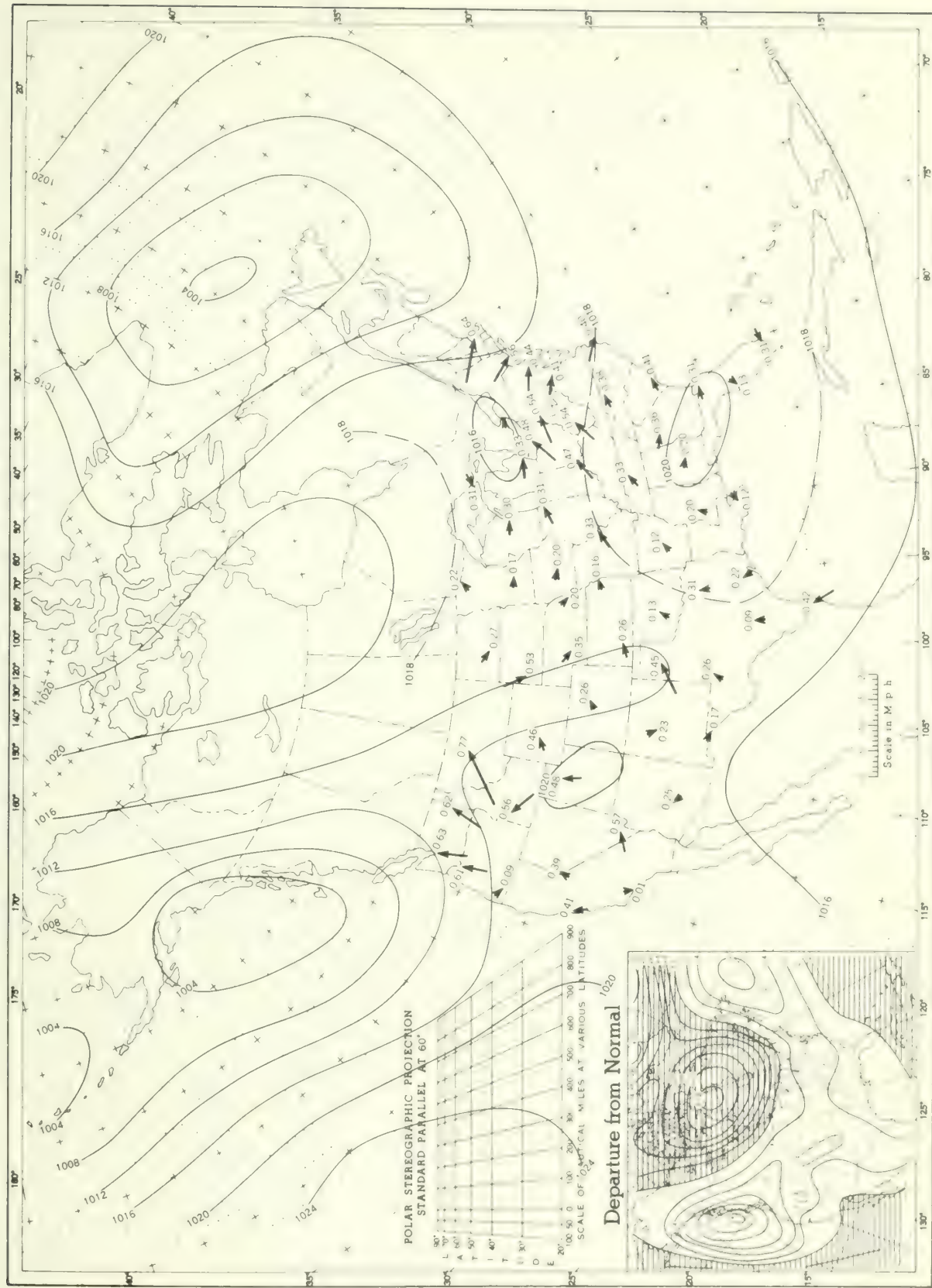
Chart IX Tracks of Centers of Cyclones at Sea Level, December 1970.



Circle indicates position of center at 7:00 a.m. E.S.T. Figure above circle indicates date, figure below, pressure to nearest millibar.
Dots indicate intervening 6-hourly positions. Squares indicate position of stationary center for period shown. Dashed line in track
indicates reformation at new position. Only those centers which could be identified for 24 hours or more are included.

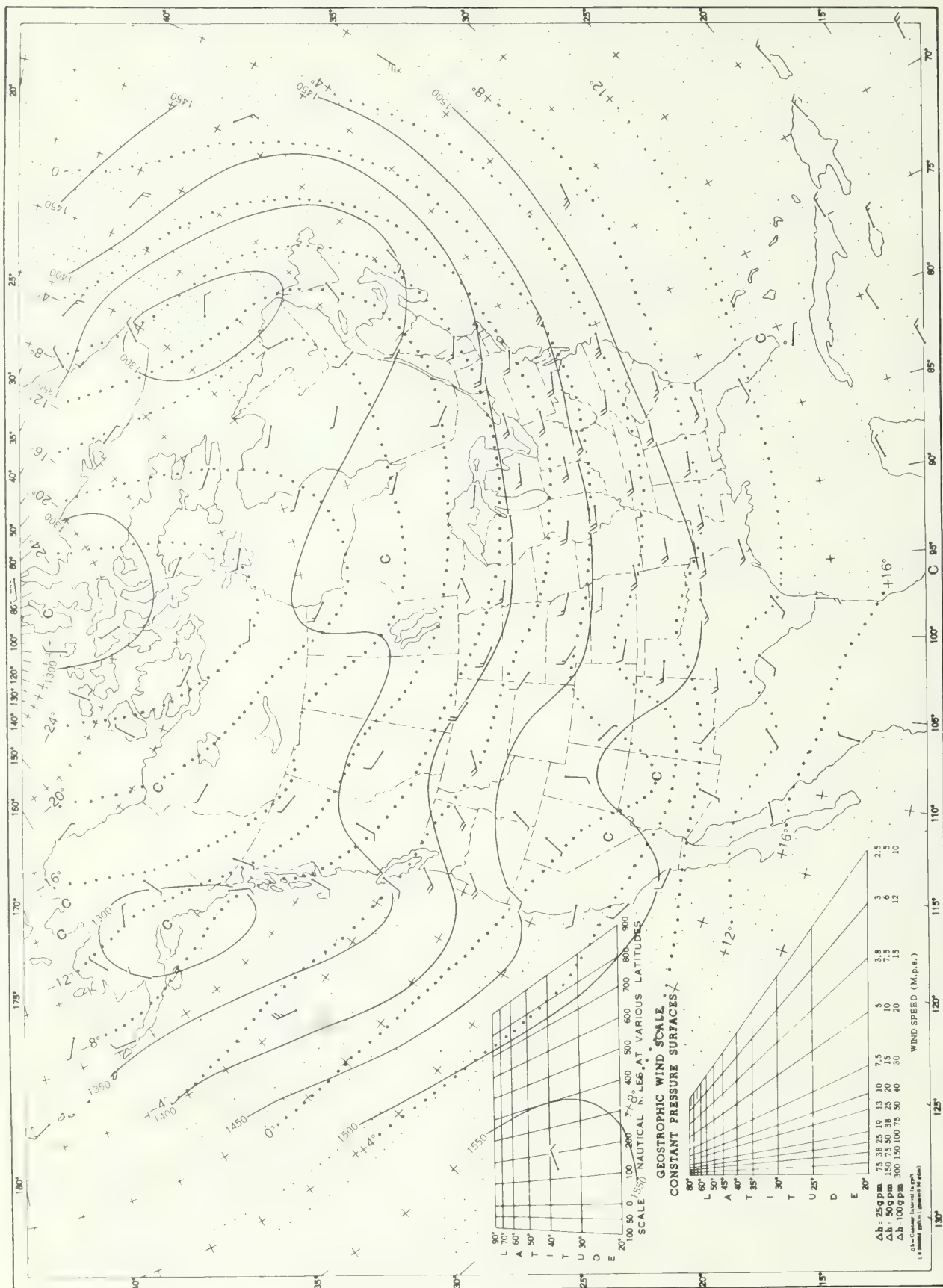
Chart X. Average Sea Level Pressure (mb) and Resultant Surface Wind, December 1970. Inset: Departure of

Average Pressure (mb) from Normal, December 1970.



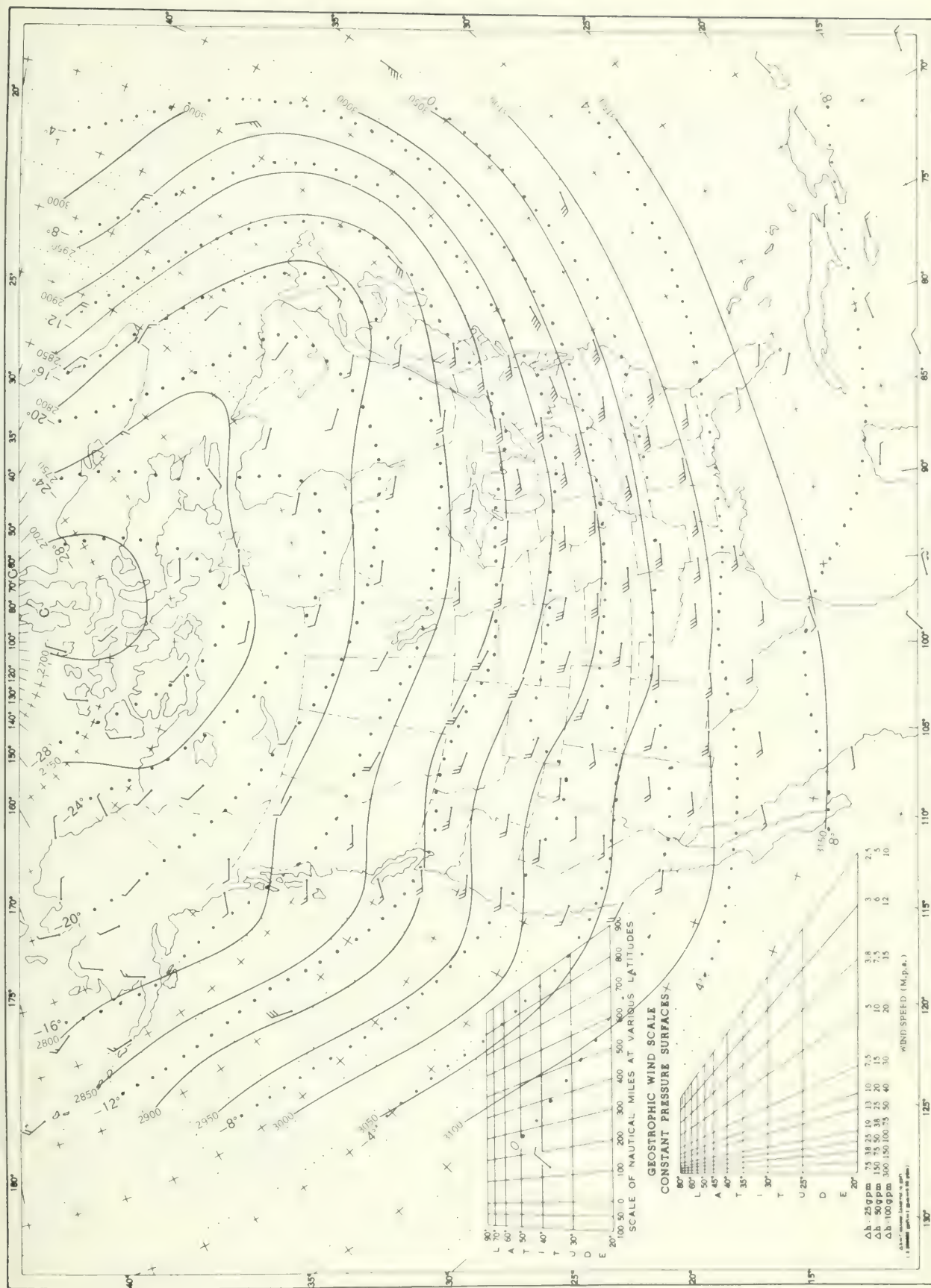
Average sea level pressures are obtained from eight daily hourly observations. Resultant wind directions and speeds are shown by arrows. Contour values resultant speed average speed are shown to two decimal places. Pressure normals are computed for stations having at least 10 years of record and for 10° intersections in a diamond grid over the oceans.

Chart XI 350-mb Surface, 1200 GMT, December 1970. Average Height and Temperature, and Resultant Winds.



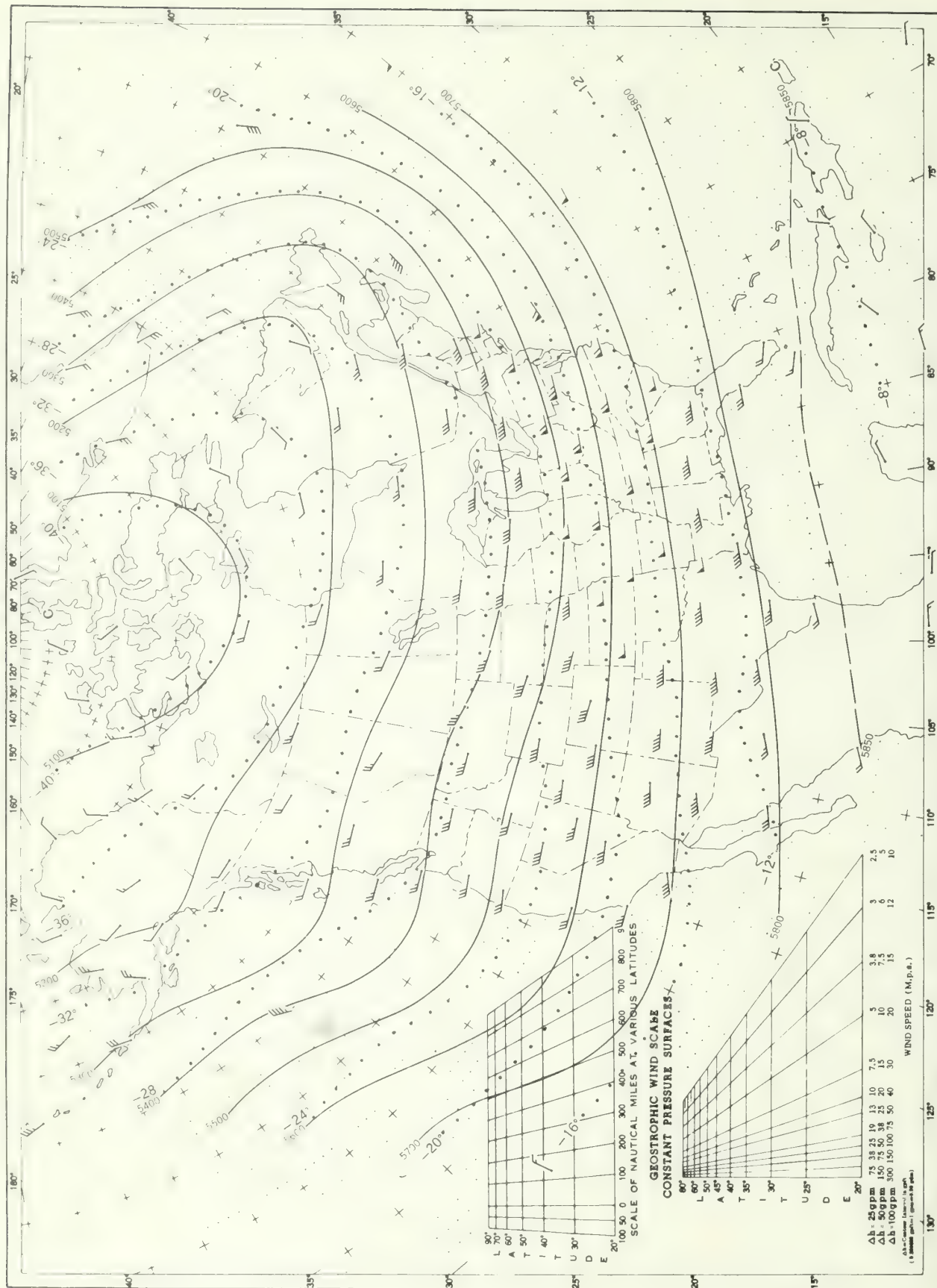
Height in geopotential meters (1 g.p.m. = 0.98 dynamic meters). Temperature in °C. Wind speed in meters per second; flag represents 25 mps, full feather 5 mps, and half feather 2.5 mps. All wind data are based on rawin observations.

Chart XII. 700-mb Surface, 1200 GMT, December 1970. Average Height and Temperature, and Resultant Winds.



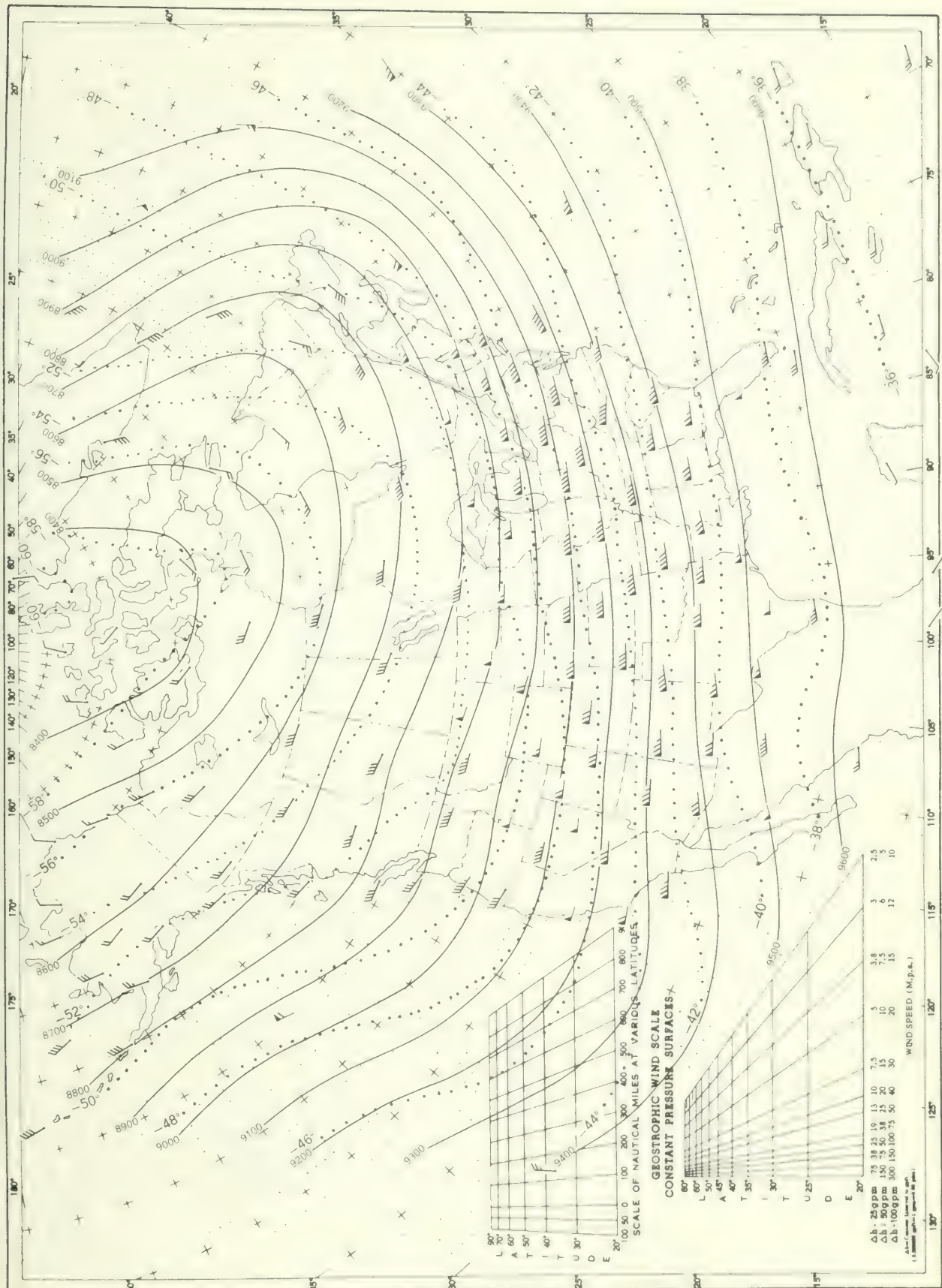
Height in geopotential meters (1 g.p.m. = 0.98 dynamic meters). Temperature in °C. Wind speed in meters per second; flag represents 25 mps, full feather 5 mps, and half feather 2.5 mps. All wind data are based on rawin observations.

Chart XIII. 500-mb Surface, 1200 GMT, December 1970. Average Height and Temperature, and Resultant Winds



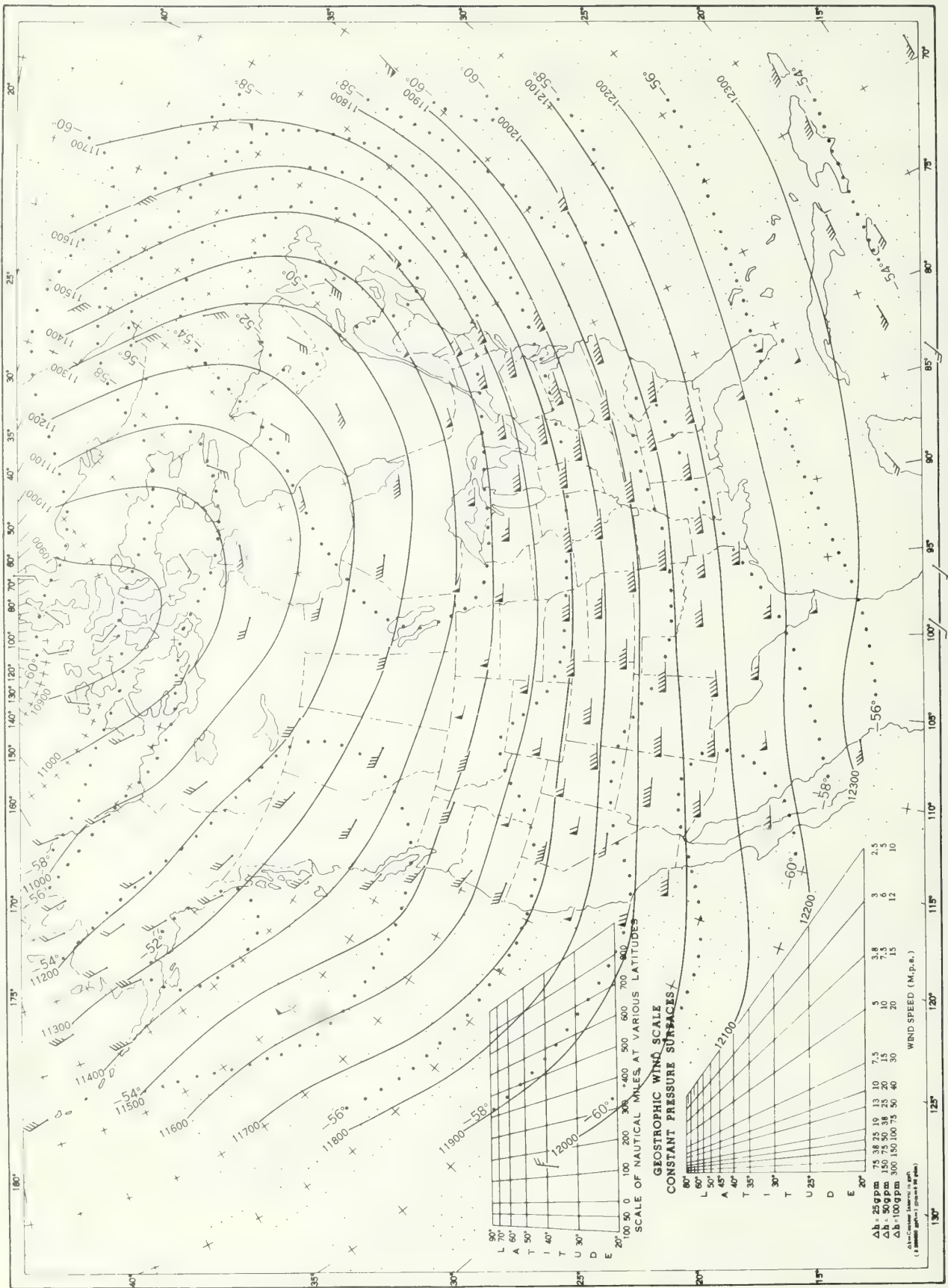
Height in geopotential meters (1 g.p.m. = 0.98 dynamic meters). Temperature in °C. Wind speed in meters per second; flag represents 25 mps, full feather 5 mps, and half feather 2.5 mps. All wind data are based on rawin observations.

Chart XIV. 300-mb. Surface, 1200 GMT, December 1970. Average Height and Temperature, and Resultant Winds.



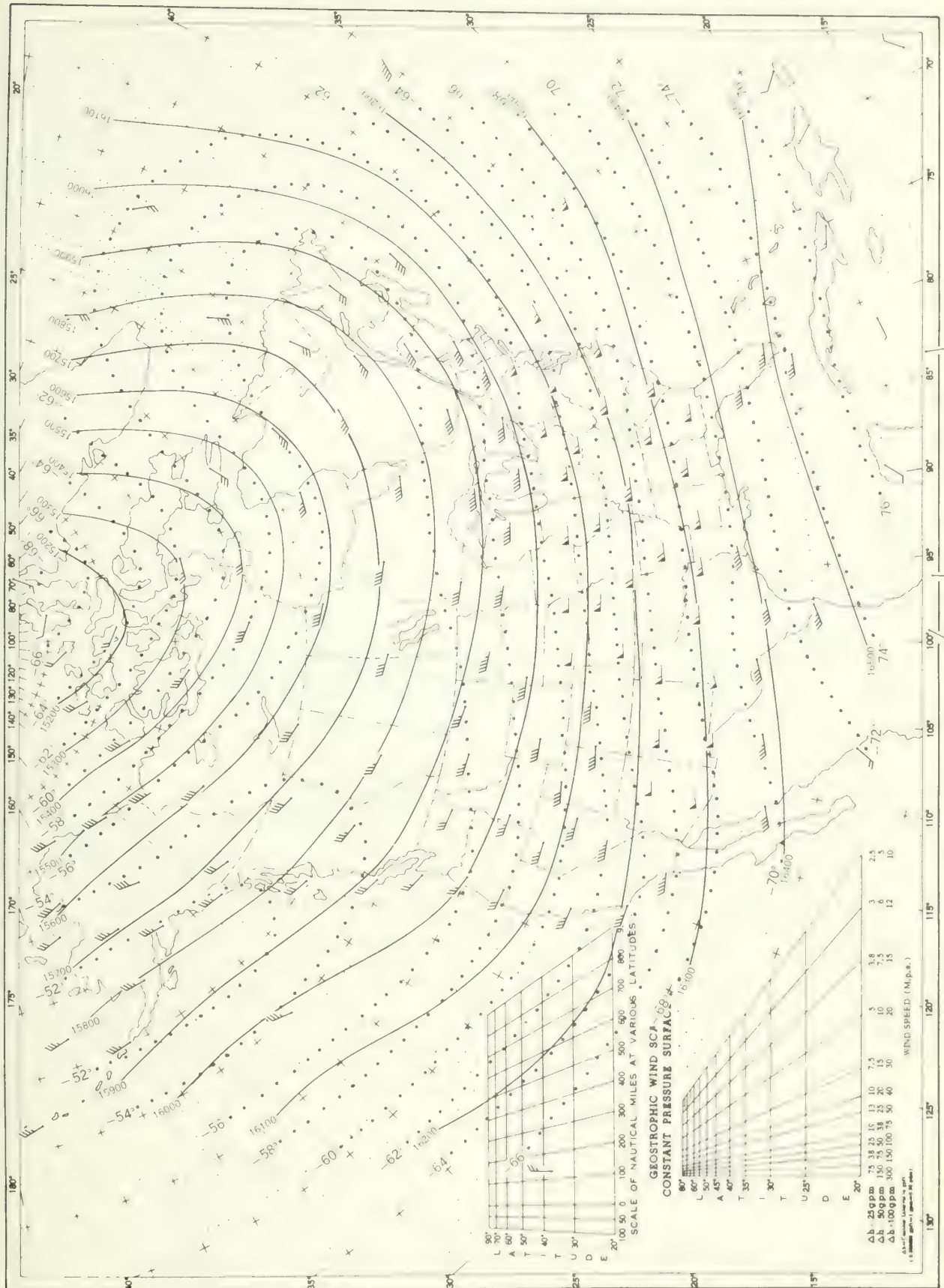
Height in geopotential meters (1 g.p.m. = 0.98 dynamic meters). Temperature in °C. Wind speed in meters per second; flag represents 25mps, full feather 5mps, and half feather 2.5 mps. All wind data are based on rawin observations.

Chart XV. 200-mb. Surface, 1200 GMT, December 1970. Average Height and Temperature, and Resultant Winds.

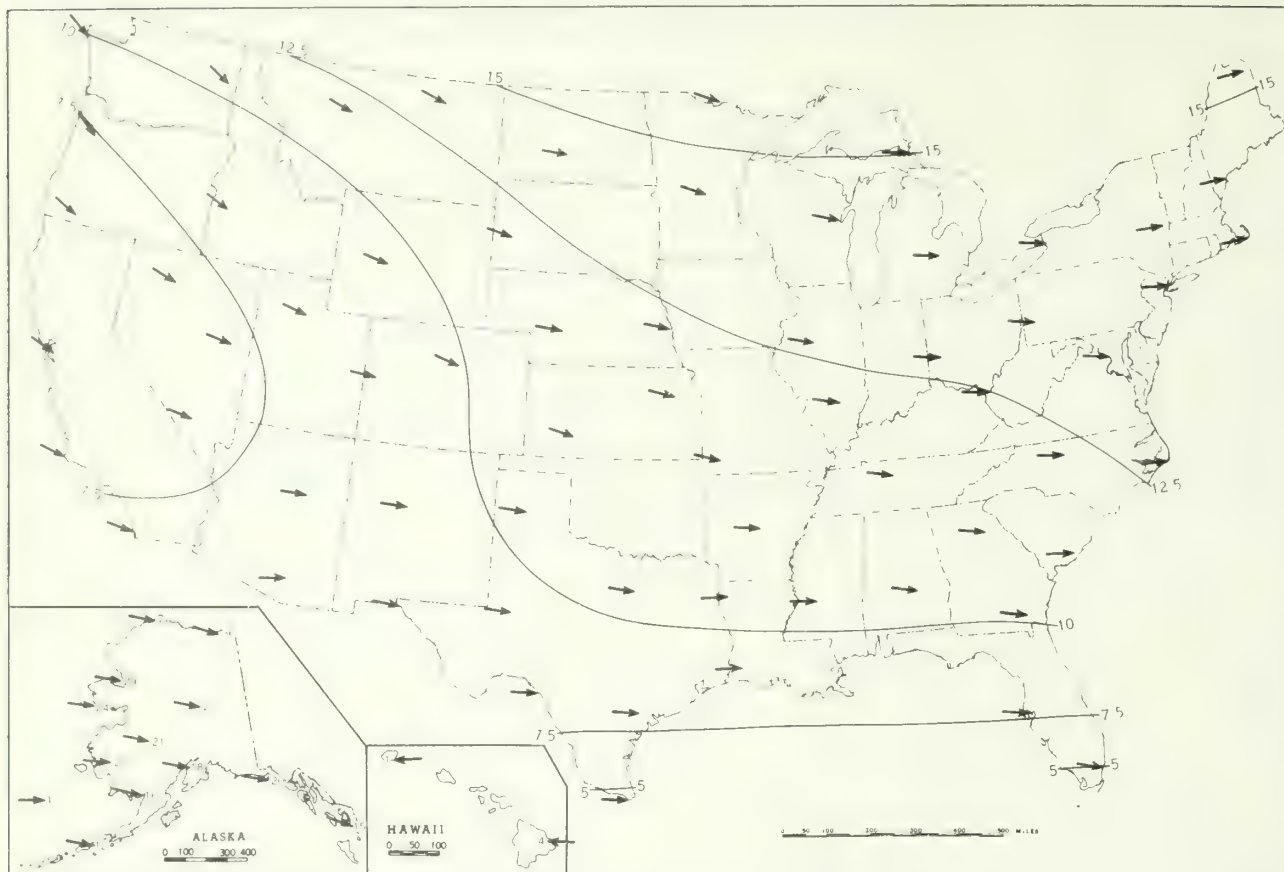


Height in geopotential meters (1 g.p.m. = 0.98 dynamic meters). Temperature in °C. Wind speed in meters per second; flag represents 25 mps, full feather 5 mps, and half feather 2.5 mps. All wind data are based on rawin observations.

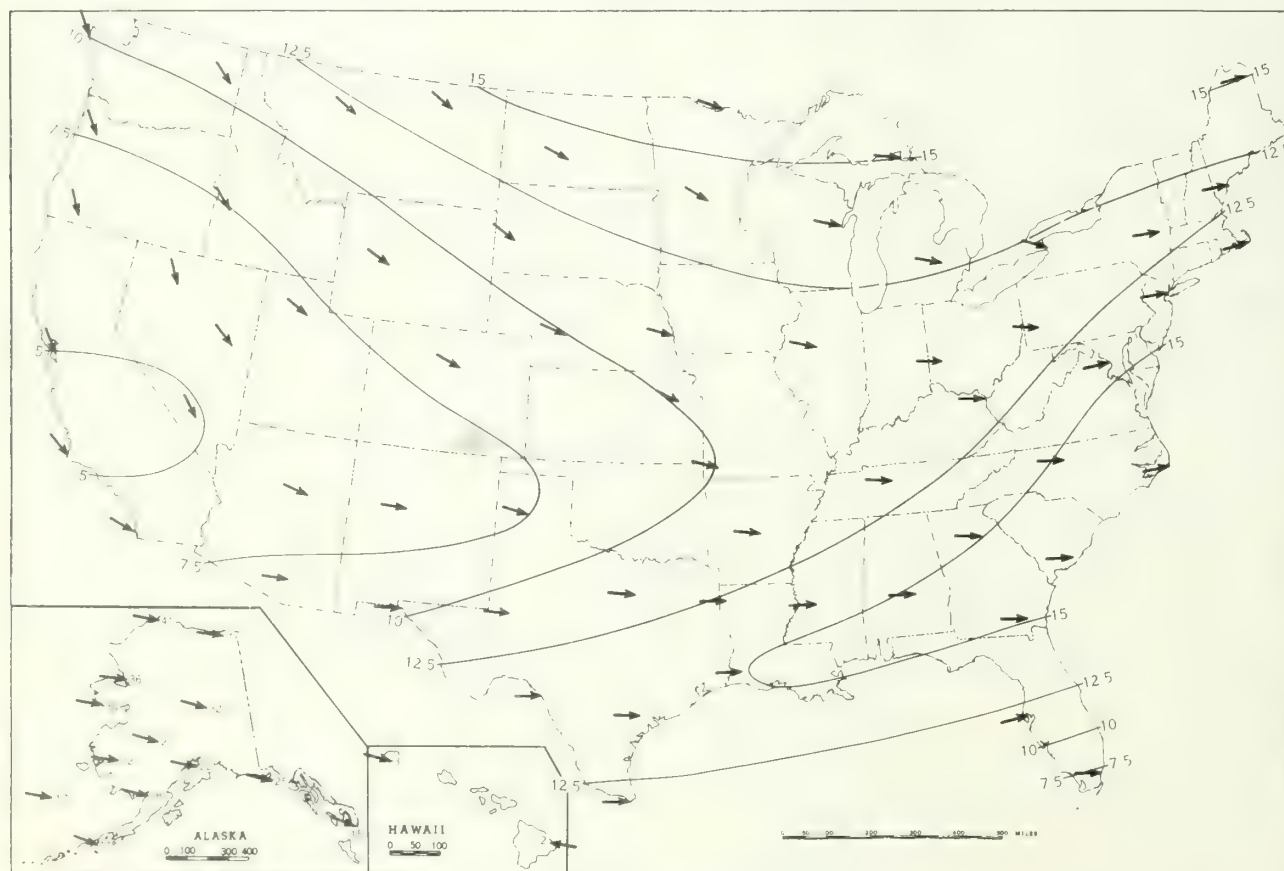
Chart XVI. 100-mb. Surface, 1200 GMT, December 1970. Average Height and Temperature, and Resultant Winds.



Height in geopotential meters (1 g.p.m. = 0.98 dynamic meters). Temperature in °C. Wind speed in meters per second; flag represents 25 mps, full feather 5 mps, and half feather 2.5 mps. All wind data are based on rawin observations.



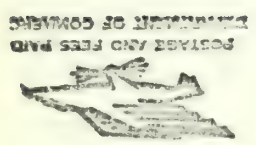
B. 30-mb. Surface, 1200 GMT, December 1970. Resultant Winds.

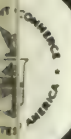


Wind speed (isotachs) in meters per second. Arrows show resultant wind direction. All wind data are based on rawin observations.

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Climatological Data

NATIONAL SUMMARY

U.S. DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
ENVIRONMENTAL DATA SERVICE



ANNUAL

1970

Volume 21

No. 13

Wilmington, N.C.

1971

C O N T E N T S

SURFACE DATA

| | Page |
|--|------|
| General Summary of Weather Conditions----- | 3 |
| Excessive Precipitation (Short Duration Rainfall) By Stations----- | 7 |
| Sunshine, Amount and Percentage by Stations----- | 20 |
| Annual Climatological Data by Stations - English Units----- | 23 |
| Annual Climatological Data by Stations - Metric Units----- | 33 |
| Normals, Means, and Extremes by Stations----- | 43 |
| Elevations - Station Pressures----- | 50 |

STORM DATA

| | |
|--|----|
| General Summary of Tornadoes----- | 51 |
| Tornado Summary----- | 52 |
| Number of Tornadoes, Tornado Days, and Deaths by Month - 1953-1970----- | 53 |
| Average Number of Tornadoes and Tornado Days by Month, 1953-1970 - Chart----- | 54 |
| Number of Tornadoes, Tornado Days, and Resulting Losses by Years, 1916-1970----- | 55 |
| Number of Funnel Clouds in 1970----- | 56 |
| Number of Tornadoes, Tornado Days, and Deaths by State - 1953-1970----- | 57 |
| Tracks of Tornadoes, 1970 - Chart----- | 58 |
| Hailstorm Losses for Past Years----- | 59 |
| Windstorm Losses for Past Years----- | 59 |
| General Summary of North Atlantic Tropical Cyclones----- | 60 |
| Data for North Atlantic Tropical Cyclones----- | 66 |
| Tracks of North Atlantic Tropical Cyclones----- | 67 |
| North Atlantic Tropical Cyclones for Past Years----- | 68 |
| General Summary of Eastern North Pacific Tropical Cyclones----- | 70 |
| Tracks of Eastern North Pacific Tropical Cyclones----- | 74 |
| Data for Eastern North Pacific Tropical Cyclones----- | 76 |
| General Summary of Western North Pacific Typhoons----- | 78 |
| Tracks of Western North Pacific Typhoons----- | 81 |
| Tracks of Western North Pacific Tropical Storms----- | 82 |
| Frequency of Tropical Cyclones (Including Typhoons) by Months and Years----- | 83 |
| Frequency of Tropical Cyclones Reaching Typhoon Intensity by Months and Years----- | 83 |
| Data for Western North Pacific Tropical Cyclones----- | 84 |
| Tropical Cyclones of the Central North Pacific----- | 84 |
| Track of the Central North Pacific Cyclone----- | 85 |

FLOOD DATA

| | |
|---|----|
| General Summary of Flood Losses - 1969----- | 86 |
| Estimated Flood Losses - 1969----- | 88 |
| Loss of Life and Property in the United States from Floods - 1925-1969----- | 93 |
| Distribution of Estimated Flood Losses - Chart----- | 95 |
| Losses in Individual Severe Floods since July 1902----- | 96 |
| Flood Damage Estimates by States - 1955-1969----- | 98 |
| General Summary of River and Flood Conditions - 1970----- | 99 |

SOLAR RADIATION DATA

| | |
|---------------------------------------|-----|
| Average Daily Values by Stations----- | 101 |
|---------------------------------------|-----|

CHARTS

| | |
|---|-----|
| I---Departure from Normal of Annual Average Temperatures (°F) at Surface, 1970----- | 102 |
| II---Total Precipitation, 1970----- | 103 |
| III---Percentage of Normal Annual Precipitation, 1970----- | 104 |

RAWINSONDE DATA (Average Annual Values) - tabulation discontinued. The tabulation
 RAWINSONDE DATA (Average Monthly Values) is carried in the monthly issue of the publica-
 tion CLIMATOLOGICAL DATA NATIONAL SUMMARY.

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CLIMATOLOGICAL DATA

NATIONAL SUMMARY

Volume 21 No. 13

YEAR 1970

GENERAL SUMMARY OF WEATHER CONDITIONS

L. H. Seamon
Environmental Data Service, NOAA
Washington, D. C.

HIGHLIGHTS:

1. Generally ample precipitation for crop production and water supplies.
2. Hurricane Celia on August 3, one of Texas' worst storms.
3. Lubbock, Tex., tornado May 11.
4. Cold winter East, warm West.
5. Heavy to record-breaking December snowfall.
6. Hot, humid weather in East, with a high degree of air pollution in lower and central Appalachian region the last few days of July.

WINTER.--The 1969-70 winter was unusually cold in the eastern half of the Country and abnormally mild in the West, a temperature pattern that persisted with only brief interruptions all winter. A northerly flow of air over the East (from the Great Plains to the Atlantic coast) kept temperatures persistently well below normal. This resulted in the coldest January in about 100 years at some locations in New York and New England where the number of days with below-zero readings and the duration of below-freezing temperatures set new records. Inflows of warm Pacific air in the West resulted in a relatively warm month in that region, several locations reporting near-record warmth. In the East February averages were near to a few degrees below normal. Winter extreme temperatures ranged from 91° to 25° in Hawaii, 59° to -63° in Alaska, and from 91° to -47° in the 48 States, well within the limits of previous records.

Winter precipitation was well above normal in Florida and parts of the Pacific Northwest and near to much below normal elsewhere. Persistent and often heavy rains in the Pacific Northwest during January totaled 45.94 inches at Pit River Power House in northern California where the most damaging floods of the month occurred. The driest area extended from the Southwest to the Great Lakes. In much of this area winter precipitation was less than 50 percent of normal.

Winter snowfall was below normal in most areas even though snowfall was unusually heavy in the northeastern quarter of the Country during December 1969. In the West snowfall was below normal during all three winter months, a sharp contrast to the unusually heavy snowfall of the previous winter.

SPRING.--Spring temperatures averaged slightly above normal in most of the area from the Mississippi Valley to the Atlantic Coast and below normal in the West with departures as much as 4° in northern portions of the Rockies and Great Plains.

Average temperatures for March were below normal in most states as several storm passages through southern areas favored deep penetration of arctic air. In some western locations March was colder than February.

April was relatively cool in the West and warm in the East. Many western stations reported near-record low average temperatures for April. It was the second coldest April in 93 years at Walla Walla, Wash., and the coldest in 62 years at Winslow, Ariz. Low temper-

atures caused considerable damage to fruit and nuts in the Red Bluff, Calif., area on April 27th and 28th and to fruit in unheated orchards in the vicinity of Grand Junction, Colo. Relatively cold weather persisted in some of the Eastern Coastal States until mid-April or later and then was persistently above normal with an early-season heat wave in the Northeast during the closing days of the month. The contrasting temperatures were exemplified very well at Rochester, N. Y., where 14° on the 11th was a record low there for so late in the season and 93° on the 30th was the highest for April in 100 years.

May was a few degrees warmer than normal in most areas, but average temperatures were slightly below normal in parts of the Gulf States and along the northern border west of the Great Lakes. Cloudiness was a contributing factor to the relatively low temperatures with a cold air inflow also a factor in the North. Freezing caused some crop damage in northeast Oregon and in the vicinity of Mt. Shasta, Calif., on the 11th and 12th, and locally in western and northeastern New York and northeastern Pennsylvania on the 7th. Madison, Wis., recorded 25° on the 6th, the second lowest temperature for April there during a 101-year record. During an early season heat wave in southern California at mid-month, Fresno recorded 103° and San Diego 101°, record early season highs.

Spring precipitation generally totaled from 8 to 16 inches from the Atlantic Coast to the Mississippi Valley, tapering off westward to less than an inch in parts of the southwest desert areas and eastern Washington. Relative to normal, the heaviest amounts (over 200 percent) fell at points in the northern Great Plains, southwest Arizona, along the central Texas Coast and in southern Florida. Some western areas had less than half of the normal.

March precipitation was near to above normal in most areas, with heaviest amounts, relative to normal, falling in southern areas and ranging up to 400 percent in Arizona and Florida. Fort Myers, Fla., recorded 18.58 inches, a March record. March was very dry in most of the Great Basin and Pacific States.

In April more than half the area of the 50 States had above-normal precipitation with up to 200 percent in the Midwest and northern Great Plains. This April was among the wettest on record in the Dakotas and in the Midwest.

May precipitation was spotty east of the Rockies but mostly below normal, and much below in the West and Southwest, Great Plains, Arkansas, and a belt including eastern West Virginia and western Virginia. Much of the May precipitation was of the summer type, frontal and airmass showers and thunderstorms. After a very dry April, a tropical storm late in May brought beneficial rains to Florida. The month was very stormy, particularly in the Great Plains and Mississippi Valley where hail, wind, lightning, and flash floods took a heavy toll of property and crops.

Spring snowfall, in contrast to the below-average winter snowfall in the West, was above average. Snow-

GENERAL SUMMARY OF WEATHER CONDITIONS-Continued

YEAR 1970

fall in March was above normal in the Rockies and in more than half the area east of the Rockies where snow is a common occurrence in March. Falls were unusually heavy for March in the Rockies and from the Texas Panhandle northeastward through the Ohio Valley and New England. Flagstaff, Ariz., recorded 67.3 inches, a record amount for the month and many other stations in the Rockies reported near-record amounts. East of the Rockies, Springfield, Mo., reported 23.9 inches, the most for March during a 90-year record; Cincinnati, Ohio, had 12.1 inches for the fourth heaviest amount for March in a hundred years.

April snowfall was abnormally heavy in parts of the Cascade and Sierra Mountains and eastward through Michigan and in Maine. Ely, Nev., measured a record 24-hour amount of 10.7 inches on the 26th and 27th. Other heavy amounts for April included 22.2 inches, the most at Williston, N. Dak., since 1896; 6.8 inches at Topeka, Kans., the greatest amount in 44 years; 18.7 inches at Great Falls, Mont., the most in 77 years. At the end of April the mountain snowpack was very light in California, southern Nevada, and in Arizona and New Mexico, but near average elsewhere in the West.

May snowfall was limited mostly to flurries in Upper Michigan the first week and several inches in the central Rockies the second week.

SUMMER.--Summer temperatures averaged below normal from Texas and Georgia northward to the Great Lakes and above normal elsewhere.

The temperature pattern for June was almost the same as that for summer. Mild to hot temperatures prevailed in the West except for a cool spell the second week when temperatures dropped below freezing in north-eastern Nevada on the 11th. In the southwest desert, temperatures rose to 123° in southern California on the 26th. The Southeast was very hot and humid the third week and maxima reached 100° on one or two days at a few stations.

The July temperature pattern was also somewhat like that for summer, with below-normal temperatures continuing in Texas, the Ohio and Mississippi Valleys. Greatest departures above or below normal exceeded 3° in only small scattered areas. Heat and humidity became oppressive in the East the last few days of the month, and air pollution was much higher than usual in the middle Atlantic area the closing days of the month. Death Valley recorded 124° on July 19, the highest temperature for 1970.

August was slightly warmer than normal in most of the Country, but relatively cool along the Pacific coast north of San Francisco and in an area including Michigan, the Ohio Valley, and parts of the Southeast. All three summer months were warmer than normal in the Great Basin and cooler than normal in the Ohio Valley and Tennessee. This August was among the warmest of record in much of the area west of the Great Plains.

Summer precipitation totals were mostly within the range of 75 to 150 percent of normal. Parts of the Pacific States and an area in southern Texas had less than half normal, and the central Great Basin had more than 200 percent of normal. Typical of summer, the geographical distribution during each month was very irregular.

In June wettest areas, relative to normal, were in a band extending from the central Rockies into northern California and in the Tennessee and Ohio Valleys. Very dry areas with less than 50 percent of normal were in the Pacific Northwest, the Mississippi Valley

and parts of the Southeast, and the Southwest. Early in June a frontal system brought heavy rains with local flooding in the lower Great Plains and Midwest. In the second week snow fell above 7,000 feet in the upper Rockies; 7 inches were measured at Fraser, Colo.

July precipitation was above normal in a broad belt along the Continental Divide and in the upper Mississippi Valley and Great Lakes region, and below normal elsewhere except locally scattered areas. Areas with less than half of normal included parts of New England and the Red River of the North Valley, a large area extending through most of Texas, Oregon, California and Nevada. Totals from Missouri to Texas were less than an inch and locally only a trace. At the end of the month crops generally were making good progress.

August precipitation was very light westward from the upper Great Lakes, and in the central Rockies and in the Pacific States. Relative to normal, amounts were spotty in eastern and southern areas ranging from less than half normal to locally over 200 percent. One relatively small area of heavy rain occurred in southern Texas when Hurricane Celia moved inland over Corpus Christi the first week. Heavy thunderstorm rainfall caused some flooding in Iowa on the 5th and in North Carolina a few days later. The Midwest and South received up to 4 inches or more shortly after midmonth and during the last week, respectively. A monthly total of 21.08 inches set a new August record for Appalachicola, Fla. Most of the eastern half of the Nation received over 2 inches for the month.

AUTUMN.--Temperatures for the season averaged from normal to 2° or more below west of the Mississippi River, and a like amount above in the East. September was relatively cool in the western third of the Nation, October in the western two-thirds, and November in nearly all of the West. Cold spells in the midcontinent area and Northeast were usually of short duration. Although November was unusually cool in the Southeast, September and October were abnormally warm enough there to bring the autumn average up to above normal.

Large temperature changes occurred during September. The first week was very warm east of the Continental Divide with 106° at Huron, S. Dak., equaling the September high there. Advection of cold air into the Northwest during the second week brought a 25° to 30° temperature drop and some record low temperatures for so early in the season to the northern Rockies. In the East this was the warmest September in 39 years at Columbia, S. C., and Parkersburg, W. Va., and in 37 years at Port Arthur, Tex. In the Northeast an unusual hot spell with highs above 90° during the fourth week was one of the most prolonged and severe on record for so late in the season.

October was a few degrees warmer than normal in the Great Lakes region, the middle and upper Ohio Valley, and the Atlantic Coastal States, and abnormally cool elsewhere. The month was 6° or more cooler than normal in the Rockies and Great Plains and the coolest October on record at scattered stations including El Paso, Tex., which has a 93-year record. The month began warm in the West and cool in the East, but after the first few days the reverse was true for the remainder of the month. Freezing had occurred in most of the western interior by the end of the first week and in most of the eastern interior except in the Gulf States by the end of the third week.

November was unseasonably mild in most of the West and from the upper Mississippi Valley eastward and below normal elsewhere. Above normal temperatures

GENERAL SUMMARY OF WEATHER CONDITIONS-Continued

YEAR 1970

were very persistent in the Southwest. The Northwest was abnormally mild during the first half but cold during the latter. The Northeast was warmer than normal until near the end of the month. During a cold air outbreak which pushed into the Southern States on the 24th and 25th, Tampa, Fla., recorded 23°, the lowest ever for November, and numerous other southern stations reported their lowest temperatures for so early in the season.

Autumn was wetter than usual in most areas, with totals in much of the Mississippi Valley and California ranging from 150 to more than 200 percent of normal. Below-normal amounts were limited to parts of the Southwest, a strip along the Northwestern border, in Alabama and central Tennessee, and the immediate area along the Atlantic coast. Deficits greater than 50 percent occurred in only a few small scattered areas.

September precipitation was abnormally heavy on the western slopes of the Rockies and in most of the area between the Rockies and the Appalachians, with up to 400 percent locally in both areas. The month was the wettest in many years in a belt from Texas to the Great Lakes. A total of 8.82 inches at Madison, Wis., was the most there for September in 101 years. Many severe local storms occurred with the heavy rainfall in the midcontinent area. The first winter storm brought light to heavy snowfall to the central Rockies during the second week, and Hurricane Ella brought beneficial rains to Texas. Tropical Storm Felice brought additional light to heavy rains to eastern and central Texas the third week. The heavy rains in the mid-continent area caused some local flooding.

October was unusually wet in the South, the upper Mississippi Valley and central portions of the Great Plains and Rockies. Port Arthur, Tex., measured 15.09 inches for the wettest October in 59 years; Meridian, Miss., had the most in 81 years; Birmingham, Ala., in 36 years; Louisville, Ky., in 29 years; and Duluth, Minn., in 21 years. Some of the largest monthly totals in the 50 States included 28.96 inches at Deweyville, Tex., 20.43 inches at Rosman, N. C., and 19.94 inches at De Quincy, La. Snowfall was unusually early in parts of the Great Plains and Rockies. Pueblo, Colo., measured 6.3 inches on the 4th, the most in October during an 82-year record; and 1.1 inches on the 8th was the earliest measurable snow at Dodge City, Kans., during 96 years of record.

November precipitation ranged from less than 50 percent of normal in much of the South to more than 200 percent in Maryland and adjoining areas, parts of the Dakotas and Minnesota, southern Oregon and most of California and Nevada. Monthly totals exceeded 8 inches along the north Pacific coast and in parts of the Middle Atlantic States. Frontal precipitation occurred at frequent intervals on the Pacific coast. Heavy snows of 4 to 10 inches fell in the northern Great Plains the third week and from 10 to 24 inches in Washington and near Lake Erie the fourth week. Snow depths in the Cascades ranged from 30 to 50 inches at elevations of 3,000 to 5,000 feet.

DECEMBER.--For the last month of 1970, the first month of the winter of 1970-71, temperatures averaged a few degrees below normal west of the Continental Divide and north of a line extending from northern Colorado to southern New England, and a few degrees above normal elsewhere.

The first week, relative to normal, was warm except cold along the northern border west of the Great Lakes. During the remainder of the month, advection of cold air reduced temperatures to below-normal levels in

Upper Michigan and New England the second week, the upper Great Plains and areas west of the Continental Divide the third week, and the rest of the Country except some areas in the Gulf States by the end of the month. Subzero minima were recorded in much of the Great Basin, the central and upper Rockies, and upper portions of the Great Plains and Mississippi Valley.

Pensacola, Fla., recorded a record high of 80° on the 22d and highs of 76° at St. Louis, Mo., and 71° at Peoria, Ill., equalled the records there during periods of 100 and 114 years respectively. A number of stations in Texas reported the warmest December in many years.

Above-normal precipitation occurred mostly in the Pacific States, upper portions of the Great Basin and Rockies, and the Appalachians and Northeast. Most other sections from the middle Mississippi Valley eastward had slightly below normal monthly totals. Most of the Great Plains and lower Rocky Mountain area received much-below normal amounts. Along the north Pacific coast, the wettest section, monthly totals exceeded 8 inches and ranged up to 34.39 inches near Tillamook, Ore. A few sections in the East received more than 4 inches. Pueblo, Colo., only recorded a trace, the least for December in 82 years, and many stations in the lower Great Plains had no precipitation at all.

Snow surveys in Nevada indicated that on January 1 frequent December snowstorms had deposited in the Sierra Nevada Range 90 percent of the amount usually accumulated during an entire winter season or near 200 percent of the average for January 1. The snowpack in Oregon ranged from 125 to 200 percent of average; in Utah from 100 to over 200 percent of average, and Idaho reported the water equivalent of the snowpack at an all-time high for the time of year. Heavy snows also fell in the Great Lakes and New England areas where the cover ranged up to more than 2 feet and 4 feet, respectively. During the storm in the Northeast on the 17th, 10 to 25 inches fell in northern New England. Three heavy falls in New England during the fourth week totaled from 5 to 10 inches in southern areas and 10 to 20 inches in central and northern sections except locally 2 to 3 feet in Maine and New Hampshire. Many New England stations reported new record amounts for December including Burlington, Vt., 56 inches, Portland, Maine, 54.5 inches and Boston, Mass., 27.9 inches.

WINTER-TYPE STORMS.--Snow and glaze affected much of the Nation before the end of January, hampering traffic, forcing schools and businesses to close, and damaging powerlines and trees. Only a few of these storms were outstanding, however.

On January 17-19 severe glaze in Hood River County and the Columbia Gorge of Ore., accumulated on trees and other objects up to 1 1/2 inches thick. Orchards were damaged severely and utilities to a lesser extent. Total damage to orchards was about \$6 million.

On March 27 and 28 blizzard conditions occurred over the Texas Panhandle for the first time since March 22-25, 1957.

High winds, snow, and thunderstorms accompanied a vigorous storm system from the upper Great Plains across the Great Lakes region and Northeast on the 3d and 4th of December. Central and eastern Minnesota received 8 to 12 inches of snowfall, northern Lower, and central and western Upper Michigan 10 to 20 inches which was drifted 4 to 5 feet by high winds. High waves of 10 to 20 feet caused heavy losses to

GENERAL SUMMARY OF WEATHER CONDITIONS-Continued

YEAR 1970

Michigan's lakeshore property, including \$8 million damage to the Detroit Water System's Cofferdam in lower Lake Huron. Snowfall over northern New England totaled 6 to 12 inches with local blizzard conditions.

HAIL.--As usual, hailstorms took a heavy toll of crops and caused considerable property damage. One of the year's worst cut wheat and corn almost to the ground on a 4- to 8-mile front for 200 miles through eight counties of southwestern Nebraska on June 18. Stones of 1/4 to 1/2 inch in diameter were driven by high winds. Losses were estimated at \$5 million.

Hail, wind and a tornado caused even greater damage to crops and property in 10 southeastern South Dakota counties on July 14. Most of the damage was done by hail which averaged about 1 or 2 inches in diameter but ranged up to 5 inches. Hail losses in Turner and Lincoln Counties totaled more than \$11 million.

A hailstorm in Montgomery County, Kansas, on September 3 and 4 was of particular interest owing to the size of the stones, some of which were among the largest ever reported in the State. One stone had a maximum circumference of 17 1/2 inches and weighed about 1 3/8 pounds. Another was about 8 inches across at its widest point. Stones 4 to 5 1/2 inches in diameter were common. Total damage probably approached \$1 million.

TORNADOES.--The tornado season was highlighted by the costliest tornado in history on May 11. Moving through downtown Lubbock, Tex., and then across the Municipal Airport, it killed 26 persons, injured at least 500, and was blamed for property losses of approximately \$135 million. About a quarter of the city sustained losses, including 250 businesses damaged or destroyed, 430 homes destroyed and 600 apartment houses demolished. Of interest is the fact that on May 11, 1953, a tornado devastated the heart of Waco, Tex.

During another outbreak of tornadoes in Texas on May 17 and 18, 22 persons were killed, 132 injured and property damage was estimated at about \$12 million.

The number of tornadoes was near average and the death toll well below the average of 119.

HURRICANES.--Celia, crossing the Texas Coast on August 3, was the most significant tropical storm to affect the United States in 1970. She was the costliest hurricane in Texas history. Wind gusts of 161 m.p.h. were measured at the Corpus Christi Airport and estimated up to 180 m.p.h. at Aransas Pass. Celia was blamed for 11 deaths and at least 466 injuries in Texas. Total crop and property damage was estimated at \$453,773,000 in the State, with the greatest losses in the

Coastal Bend where 8,950 homes were destroyed 13,850 received major damage and 41,800 minor damage. Twelve counties were declared disaster areas.

OTHER STORMS.--On January 13-14 southerly winds in advance of a cold front were responsible for the greatest damage ever by a single storm in Hawaii. Winds gusted to 96 m.p.h. on Oahu. Total damage was estimated at \$6.84 million, 94 percent of it on Oahu.

A tornado, wind and hail in central Oklahoma on April 30 injured 46 persons and caused damage exceeding \$6.3 million in Oklahoma City.

On May 22-23 lightning set a number of fires in southern Lower Michigan. Five barns were destroyed with loss of cattle, four homes damaged, and the main building of the Swedish Crucible Steel Co., at Hamtramck burned, a loss of \$5 million.

Hail, wind, rain, and lightning caused extensive damage in southern and western portions of Kansas June 18-19. In Kearny and Decatur Counties, 56,000 acres of crops were damaged. Hail was 7 inches deep south of Oberlin. Total damage was estimated at more than \$5 million.

Lightning started numerous forest fires in the Wenatchee and Okanogan National Forests of Washington on August 23-24 and 100,000 acres of forests and range lands and numerous summer cabins were burned. The weather was hot, dry, and windy---very favorable conditions for the fires to spread. Losses, mostly to timber, exceeded \$50 million.

Santa Ana winds with high temperatures and low relative humidity created a high fire hazard in southern California September 25-29. More than 500,000 acres were burned and 1,000 structures including 500 homes and at least four churches. Twenty firemen were injured. Losses, mostly to property, exceeded \$50 million.

In Puerto Rico heavy rains caused by a slow-moving tropical storm October 4-9 resulted in disastrous floods in the eastern two-thirds of the Island. Total rainfall for the storm exceeded 30 inches at a number of stations, the greatest amount, 38.42 inches, falling at Jayuya. Eighteen persons lost their lives, 600 homes were destroyed, hundreds damaged, and thousands of persons were evacuated from their homes. Damage to public facilities such as roads and bridges was estimated at about \$12 million. Agricultural losses were heavy, totaling nearly \$8 million, with the coffee, sugar cane, tobacco and banana crops accounting for much of the damage. This agricultural disaster in Puerto Rico was described as the greatest since the San Felipe hurricane of September 1928. The Island was declared a major flood disaster area on October 12, 1970.

EXCESSIVE PRECIPITATION

(Excessive Short Duration Rainfall)

YEAR 1970

This table contains statistics of maximum amounts of rainfall during the calendar year 1970. Data presented in this table are generally from stations equipped with recording gages. Stations are at airport locations unless otherwise shown.

Excessive precipitation data for the years 1896-1935 inclusive, generally present the accumulated amounts of precipitation for each 5, 10, or 20 minute intervals during storms in which the rate of fall equaled or exceeded .25 inch in any 5 minute period, or .30 in any 10 minute period, or .35 in any 15 minute period, etc., the tabulation beginning with the 5 minute period where the rate of .05 inch in 5 minutes began and continuing by 10 or 20 minute intervals up to 120 minutes. A detailed explanation of the method used may be found in the publications listed in the last paragraph of this explanation.

The present method, adopted with data for the calendar year 1936, gives the maximum fall of precipitation for the periods 5 to 180 minutes, the maximum amounts being taken for the periods in which the fall is greatest for the given time, and is tabulated to show maximum amounts for 5, 10, 15, 20, 30, 45, 60, 80, 100, 120, 150 and 180 minutes, even if the fall does not equal the excessive rate for some of the periods. (The 15 minute amount was not computed for 1936-43 and the 150 minute amount was not computed for 1944 through 1948).

The following Table A shows limits at which precipitation was considered excessive in this publication:

TABLE A

| Dura-
tion
(minutes) | Depth of
precipi-
tation
(inches) | Dura-
tion
(minutes) | Depth of
precipi-
tation
(inches) |
|----------------------------|--|----------------------------|--|
| 5 | .25 | 60 | .80 |
| 10 | .30 | 80 | 1.00 |
| 15 | .35 | 100 | 1.20 |
| 20 | .40 | 120 | 1.40 |
| 30 | .50 | 150 | 1.70 |
| 45 | .65 | 180 | 2.00 |

This table is made up from the formula, $A = t + 20$ where A is the accumulated depth in hundredths of inches and t is the time in minutes.

For the years 1936 through 1948 stations in North Carolina, South Carolina, Georgia, Florida, Alabama, Mississippi, Tennessee, Arkansas, Louisiana, Texas, Oklahoma, and San Juan, P. R., used the limits shown in the following Table B:

TABLE B

| Dura-
tion
(minutes) | Depth of
precipi-
tation
(inches) | Dura-
tion
(minutes) | Depth of
precipi-
tation
(inches) |
|----------------------------|--|----------------------------|--|
| 5 | .40 | 60 | 1.50 |
| 10 | .50 | 80 | 1.90 |
| 15 | .60 | 100 | 2.30 |
| 20 | .70 | 120 | 2.70 |
| 30 | .90 | 150 | 3.30 |
| 45 | 1.20 | 180 | 3.90 |

This table is made up from the formula $A = 2t + 30$. Its use, however, was discontinued at the end of 1948 and Table A is used by all sections for 1949 and the following years.

Publication of Data. A summary of maximum precipitation data for the years prior to 1896 is published in the annual report of the Chief of the Weather Bureau for 1895-1896. Excessive precipitation data for the period 1881-1896 are published in the annual report of the Chief of the Weather Bureau 1896-1897. Data for the years 1897 through 1934 have been published in the appropriate annual reports of the Chief of the Weather Bureau. For the years 1935 through 1949 these data are published in the appropriate issue of the United States Meteorological Yearbook. For 1950 and succeeding years, excessive precipitation is presented in the annual issues of the Climatological Data National Summary.

YEAR 1970

DISTRICT OF COLUMBIA - DEPT OF HEALTH
MAY 10 1966

EXCESSIVE SHORT DURATION RAINFALL

| Maximum precipitation in inches
(5 to 180 minutes) | | | | | | | | | | | | | Maximum precipitation in inches
(5 to 180 minutes) | | | | | | | | | | | | | | |
|---|--|-----|------|------|------|------|------|------|------|------|------|------|---|------------------|--|-----|-----|-----|------|------|------|------|------|------|------|------|------|
| Station and date | | 5 | 10 | 15 | 20 | 30 | 45 | 60 | 80 | 100 | 120 | 150 | 180 | Station and date | | 5 | 10 | 15 | 20 | 30 | 45 | 60 | 80 | 100 | 120 | 150 | 180 |
| FLORIDA | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| APALACHICOLA | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MAY 29 | | .40 | .79 | 1.18 | 1.53 | 2.18 | 2.96 | 3.56 | 4.30 | 4.65 | 5.19 | 5.68 | 5.72 | MIAMI | | .26 | .29 | .29 | .29 | .29 | .29 | .30 | .32 | .33 | .34 | .34 | .34 |
| AUG 5 | | .21 | .36 | .47 | .54 | .60 | .71 | .74 | .74 | .74 | .74 | .74 | .74 | FEB 3 | | .28 | .53 | .55 | .55 | .68 | .73 | .78 | .82 | .84 | .85 | .85 | .86 |
| AUG 9 | | .24 | .38 | .49 | .59 | .72 | .74 | .75 | .78 | .82 | .83 | .85 | .90 | MAR 7 | | .50 | .75 | .75 | .79 | .88 | .94 | .94 | 1.00 | 1.11 | 1.14 | 1.15 | 1.17 |
| AUG 11 | | .29 | .55 | .65 | .65 | .76 | .98 | 1.03 | 1.05 | 1.07 | 1.08 | 1.09 | 1.09 | APR 4 | | .24 | .35 | .55 | .55 | .74 | .81 | .91 | .92 | .92 | .92 | .92 | .92 |
| AUG 11 | | .23 | .40 | .57 | .67 | .79 | 1.04 | 1.13 | 1.31 | 1.03 | 1.73 | 1.88 | 2.25 | MAY 25 | | .25 | .37 | .44 | .56 | .63 | .69 | .85 | .90 | 1.11 | 1.42 | 1.53 | 1.74 |
| AUG 12 | | .38 | .67 | .94 | 1.11 | 1.46 | 1.53 | 1.92 | 2.11 | 2.18 | 2.25 | 2.33 | 2.38 | SEP 25 | | .24 | .35 | .44 | .53 | .55 | .58 | .62 | .62 | .62 | .62 | .62 | .62 |
| AUG 13 | | .22 | .41 | .58 | .59 | .76 | .99 | .25 | 1.44 | 1.87 | 2.07 | 2.10 | 2.15 | MAY 27 | | .22 | .33 | .35 | .37 | .38 | .38 | .38 | .38 | .38 | .38 | .38 | .38 |
| AUG 25 | | .24 | .35 | .47 | .54 | .66 | .70 | .70 | .70 | .70 | .70 | .70 | .70 | MAY 29 | | .25 | .35 | .45 | .56 | .60 | .60 | .67 | .67 | .67 | .67 | .67 | .67 |
| AUG 26 | | .14 | .25 | .36 | .47 | .55 | .58 | .59 | .59 | .59 | .59 | .59 | .59 | MAY 29 | | .42 | .66 | .79 | .99 | 1.06 | 1.14 | 1.15 | 1.77 | 1.87 | 1.89 | 1.91 | 1.94 |
| AUG 28 | | .21 | .34 | .45 | .48 | .48 | .48 | .48 | .48 | .48 | .48 | .49 | .49 | MAY 30 | | .26 | .33 | .33 | .35 | .37 | .34 | .66 | .67 | .67 | .67 | .67 | .67 |
| SEP 17 | | .29 | .38 | .52 | .52 | .52 | .52 | .54 | .54 | .54 | .54 | .54 | .54 | JUN 4 | | .48 | .63 | .60 | .40 | .33 | .43 | .43 | .43 | .43 | .43 | .43 | .43 |
| SEP 7 | | .35 | .59 | .90 | 1.05 | 1.26 | 1.51 | 1.52 | 1.72 | 1.74 | 1.81 | 1.83 | 1.84 | JUN 17 | | .46 | .62 | .33 | .34 | .39 | .39 | .40 | .45 | .40 | .55 | .63 | .69 |
| SEP 9 | | .26 | .44 | .51 | .59 | .62 | .80 | .81 | .81 | .89 | .91 | .91 | .91 | JUN 23 | | .21 | .32 | .37 | .52 | .60 | .59 | .71 | .71 | .72 | .73 | .73 | .73 |
| | | | | | | | | | | | | | | JUN 24 | | .45 | .60 | .70 | .55 | 1.10 | 1.14 | 1.14 | 1.16 | 1.15 | 1.16 | 1.16 | 1.16 |
| | | | | | | | | | | | | | | JUL 1 | | .28 | .42 | .52 | .50 | .74 | 1.12 | 1.14 | 1.17 | 1.13 | 1.19 | 1.22 | 1.30 |
| | | | | | | | | | | | | | | JUL 30 | | .35 | .46 | .51 | .51 | .51 | .59 | .66 | .66 | .66 | .66 | .66 | .66 |
| | | | | | | | | | | | | | | AUG 9 | | .20 | .35 | .42 | .54 | .59 | .59 | .67 | .67 | .67 | .67 | .67 | .67 |
| | | | | | | | | | | | | | | AUG 25 | | .40 | .65 | .68 | .73 | .80 | 1.10 | 1.27 | 1.33 | 1.39 | 1.39 | 1.40 | 1.40 |
| | | | | | | | | | | | | | | AUG 28 | | .36 | .37 | .38 | .40 | .42 | .42 | .42 | .42 | .42 | .42 | .42 | .42 |
| | | | | | | | | | | | | | | SEP 13 | | .35 | .65 | .95 | 1.25 | 1.50 | 1.65 | 2.05 | 2.30 | 2.58 | 2.60 | 2.60 | 2.60 |
| | | | | | | | | | | | | | | SEP 15 | | .25 | .35 | .42 | .45 | .55 | .57 | .64 | .66 | .66 | .66 | .66 | .66 |
| | | | | | | | | | | | | | | SEP 22 | | .25 | .45 | .60 | .73 | .92 | .97 | 1.07 | 1.10 | 1.10 | 1.10 | 1.10 | 1.10 |
| | | | | | | | | | | | | | | SEP 22 | | .33 | .40 | .41 | .42 | .43 | .46 | .53 | .60 | .53 | .53 | .53 | .53 |
| | | | | | | | | | | | | | | SEP 24 | | .35 | .44 | .46 | .49 | .50 | .50 | .57 | .53 | .51 | .51 | .51 | .51 |
| | | | | | | | | | | | | | | SEP 24 | | .23 | .37 | .46 | .49 | .60 | .64 | .66 | .66 | .66 | .66 | .66 | .66 |
| | | | | | | | | | | | | | | SEP 24 | | .20 | .33 | .41 | .45 | .57 | .76 | .87 | .93 | .94 | .94 | .94 | .94 |
| DAYTONA BEACH | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FEB 3 | | .22 | .37 | .45 | .50 | .51 | .56 | .78 | .88 | 1.05 | 1.16 | 1.24 | 1.35 | MIAMI | | .30 | .38 | .38 | .38 | .38 | .38 | .38 | .38 | .38 | .38 | .38 | .38 |
| APR 5 | | .11 | .22 | .32 | .40 | .53 | .65 | .73 | .78 | .80 | .82 | .85 | .89 | JAN 17 | | .23 | .43 | .60 | .74 | .67 | .97 | 1.00 | 1.12 | 1.07 | .67 | 1.09 | 1.19 |
| JUN 7 | | .20 | .31 | .33 | .34 | .34 | .34 | .34 | .34 | .34 | .34 | .34 | .34 | MAR 3 | | .25 | .43 | .60 | .74 | .67 | .97 | 1.00 | 1.12 | 1.07 | .67 | 1.09 | 1.19 |
| JUN 25 | | .26 | .49 | .54 | .59 | .62 | .65 | .66 | .66 | .66 | .66 | .66 | .66 | FEB 10 | | .34 | .59 | .60 | .62 | .62 | .62 | .62 | .62 | .62 | .62 | .62 | .62 |
| JUL 10 | | .26 | .46 | .47 | .48 | .49 | .51 | .61 | .74 | .76 | .77 | .81 | .83 | MAY 28 | | .34 | .55 | .56 | .58 | .60 | .62 | .62 | .62 | .62 | .62 | .62 | .62 |
| JUL 21 | | .20 | .37 | .38 | .41 | .45 | .48 | .49 | .50 | .51 | .53 | .55 | .58 | MAY 24 | | .19 | .34 | .44 | .52 | .57 | .83 | .89 | .92 | 1.10 | 1.24 | 1.33 | 1.35 |
| AUG 13 | | .15 | .27 | .37 | .41 | .44 | .49 | .52 | .52 | .52 | .54 | .56 | .57 | MAY 25 | | .24 | .45 | .69 | .90 | 1.11 | 1.11 | 1.11 | 1.21 | 1.22 | 1.22 | 1.22 | 1.22 |
| AUG 21 | | .27 | .32 | .36 | .36 | .37 | .40 | .41 | .41 | .41 | .42 | .44 | .45 | MAY 25 | | .35 | .65 | .90 | 1.15 | 1.50 | 1.71 | 1.77 | 2.21 | 2.66 | 2.94 | 3.00 | 3.62 |
| SEP 15 | | .29 | .31 | .31 | .31 | .31 | .31 | .31 | .31 | .31 | .31 | .31 | .31 | MAY 27 | | .43 | .55 | .55 | .64 | .64 | .79 | .93 | 1.13 | 1.45 | 1.67 | 1.69 | 1.94 |
| SEP 16 | | .25 | .42 | .43 | .45 | .48 | .56 | .57 | .58 | .58 | .58 | .58 | .58 | MAY 27 | | .43 | .55 | .55 | .64 | .64 | .79 | .93 | 1.13 | 1.45 | 1.67 | 1.69 | 1.94 |
| | | | | | | | | | | | | | | MAY 30 | | .48 | .64 | .51 | .53 | .53 | .64 | .66 | .66 | .66 | .66 | .66 | .66 |
| | | | | | | | | | | | | | | JUN 5 | | .30 | .45 | .49 | .52 | .52 | .52 | .52 | .52 | .52 | .52 | .52 | .52 |
| | | | | | | | | | | | | | | JUN 5 | | .20 | .31 | .41 | .49 | .50 | .63 | .68 | .67 | .67 | 1.02 | 1.12 | 1.17 |
| | | | | | | | | | | | | | | JUN 23 | | .23 | .38 | .51 | .55 | .63 | .65 | .66 | .66 | .66 | .67 | .67 | .69 |
| | | | | | | | | | | | | | | JUL 4 | | .18 | .29 | .38 | .42 | .42 | .42 | .44 | .44 | .44 | .49 | .57 | .50 |
| | | | | | | | | | | | | | | JUL 30 | | .45 | .77 | .93 | 1.15 | 1.22 | 1.25 | 1.26 | 1.26 | 1.26 | 1.26 | 1.26 | 1.28 |
| | | | | | | | | | | | | | | SEP 13 | | .22 | .42 | .56 | .63 | .68 | .69 | .73 | .73 | .75 | 1.09 | 1.11 | 1.20 |
| | | | | | | | | | | | | | | SEP 15 | | .24 | .61 | .82 | 1.00 | 1.49 | 1.75 | 1.87 | 1.89 | 1.89 | 1.89 | 1.89 | 1.89 |
| | | | | | | | | | | | | | | SEP 15 | | .55 | .66 | .67 | .68 | .69 | .69 | .90 | 1.05 | 1.10 | 1.10 | 1.10 | 1.10 |
| | | | | | | | | | | | | | | SEP 24 | | .23 | .33 | .37 | .38 | .39 | .39 | .39 | .39 | .39 | .40 | .40 | .40 |
| | | | | | | | | | | | | | | SEP 24 | | .20 | .33 | .41 | .45 | .57 | .76 | .87 | .93 | .94 | .94 | .94 | .94 |
| FORT MYERS | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FEB 3 | | .39 | .72 | .78 | 1.00 | 1.43 | 1.68 | 1.81 | 1.94 | 1.97 | 1.97 | 1.97 | 1.97 | ORLANDO | | .32 | .57 | .62 | .65 | .93 | .94 | 1.00 | 1.02 | 1.07 | 1.09 | 1.12 | 1.16 |
| MAR 11 | | .17 | .30 | .34 | .43 | .65 | .78 | .94 | 1.14 | 1.20 | 1.30 | 1.42 | 1.50 | FEB 3 | | .32 | .57 | .62 | .65 | .93 | .94 | 1.00 | 1.02 | 1.07 | 1.09 | 1.12 | 1.16 |
| MAR 12 | | .35 | .65 | .73 | .85 | 1.07 | 1.15 | 1.33 | 1.43 | 1.50 | 1.55 | 2.15 | 2.25 | FEB 10 | | .34 | .59 | .60 | .62 | .62 | .62 | .62 | .62 | .62 | .62 | .62 | .62 |
| MAR 25 | | .45 | .73 | .80 | .85 | .93 | 1.05 | 1.22 | 1.58 | 1.80 | 1.95 | 2.25 | 2.55 | FEB 16 | | .36 | .59 | .60 | .62 | .62 | .62 | .62 | .62 | .62 | .62 | .62 | .62 |
| MAR 26 | | .40 | .48 | .50 | .55 | .90 | 1.15 | 1.30 | 1.40 | 1.65 | 1.80 | 1.90 | 2.23 | MAY 28 | | .34 | .55 | .56 | .58 | .60 | .62 | .62 | .62 | .62 | .62 | .62 | .62 |
| MAY 24 | | .18 | .35 | .39 | .46 | .65 | .82 | .94 | 1.05 | 1.20 | 1.40 | 1.65 | 1.85 | MAY 24 | | .19 | .34 | .44 | .52 | .57 | .83 | .89 | .92 | 1.10 | 1.24 | 1.33 | 1.35 |
| MAY 30 | | .29 | .36 | .38 | .39 | .58 | .64 | .70 | .81 | .82 | .82 | .82 | .82 | MAY 25 | | .24 | .45 | .69 | .90 | 1.11 | 1.11 | 1.11 | 1.21 | 1.22 | 1.22 | 1.22 | 1.22 |
| JUN 4 | | .30 | .50 | .57 | .64 | .66 | .66 | .66 | .66 | .66 | .66 | .66 | .66 | MAY 25 | | .35 | .65 | .90 | 1.15 | 1.50 | 1.71 | 1.77 | 2.21 | 2.66 | 2.94 | 3.00 | 3.62 |
| JUN 16 | | .57 | .88 | 1.13 | 1.30 | 1.58 | 1.85 | 2.05 | 2.18 | 2.22 | 2.26 | 2.36 | 2.36 | MAY 27 | | .43 | .55 | .55 | .64 | .64 | .79 | .93 | 1.13 | 1.45 | 1.67 | 1.69 | 1.94 |
| JUN 17 | | .80 | 1.07 | 1.35 | 1.57 | 1.67 | 1.75 | 1.75 | 1.75 | 1.75 | 1.77 | 1.80 | 1.82 | MAY 27 | | .43 | .55 | .55 | .64 | .64 | .79 | .93 | 1.13 | 1.45 | 1.67 | 1.69 | 1.94 |
| JUN 20 | | .50 | .56 | .69 | .69 | .70 | .70 | | | | | | | | | | | | | | | | | | | | |

YEAR 1970

| Station and date | | | Maximum precipitation in inches
(5 to 180 minutes) | | | | | | | | | | | |
|------------------|----|--|---|------|-----|------|------|------|------|------|------|------|------|------|
| | | | 5 | 10 | 15 | 20 | 30 | 45 | 60 | 80 | 100 | 120 | 150 | 180 |
| GEORGIA | | | | | | | | | | | | | | |
| SAVANNAH | | | | | | | | | | | | | | |
| MAR | 21 | | .24 | .29 | .30 | .30 | .31 | .35 | .36 | .36 | .36 | .36 | .36 | .36 |
| MAR | 22 | | .34 | .47 | .55 | .56 | .55 | .72 | .86 | .97 | 1.04 | 1.12 | 1.19 | 1.23 |
| MAR | 30 | | .22 | .38 | .49 | .53 | .55 | .68 | .87 | 1.03 | 1.33 | 1.42 | 1.57 | 1.59 |
| MAY | 17 | | .32 | .46 | .54 | .56 | .57 | .57 | .57 | .57 | .57 | .57 | .57 | .57 |
| MAY | 24 | | .19 | .27 | .37 | .39 | .39 | .39 | .39 | .39 | .43 | .44 | .45 | .45 |
| JUN | 14 | | .29 | .43 | .54 | .58 | .60 | .86 | .92 | 1.03 | 1.06 | 1.10 | 1.12 | 1.21 |
| JUN | 15 | | .28 | .45 | .61 | .68 | .77 | .90 | 1.18 | 1.39 | 1.40 | 1.41 | 1.41 | 1.41 |
| JUN | 22 | | .35 | .60 | .70 | .79 | .95 | 1.03 | 1.05 | 1.08 | 1.09 | 1.09 | 1.09 | 1.09 |
| JUL | 11 | | .28 | .47 | .51 | .52 | .52 | .59 | .61 | .61 | .61 | .61 | .61 | .61 |
| JUL | 13 | | .28 | .47 | .51 | .52 | .52 | .59 | .61 | .61 | .61 | .61 | .61 | .61 |
| JUL | 15 | | .20 | .38 | .54 | .56 | .57 | .58 | .58 | .58 | .58 | .58 | .58 | .58 |
| AUG | 8 | | .41 | .76 | .97 | 1.19 | 1.68 | 2.38 | 3.01 | 3.80 | 3.92 | 4.19 | 4.59 | 4.81 |
| AUG | 9 | | .24 | .39 | .46 | .51 | .56 | .60 | .63 | .65 | .65 | .65 | .65 | .65 |
| AUG | 25 | | .17 | .29 | .45 | .53 | .61 | .69 | .75 | .80 | .85 | .92 | .97 | .99 |
| AUG | 26 | | .14 | .30 | .36 | .38 | .55 | .64 | .70 | .73 | .86 | 1.15 | 1.22 | 1.23 |
| SEP | 6 | | .33 | .53 | .61 | .65 | .69 | .69 | .70 | .70 | .70 | .70 | .70 | .70 |
| SEP | 21 | | .28 | .37 | .44 | .47 | .54 | .62 | .90 | .92 | .93 | .99 | .99 | 1.00 |
| SEP | 23 | | .30 | .55 | .80 | .97 | 1.13 | 1.36 | 1.46 | 1.42 | 1.42 | 1.52 | 1.53 | 1.53 |
| SEP | 27 | | .27 | .27 | .37 | .38 | .40 | .41 | .42 | .42 | .48 | .48 | .60 | .68 |
| SEP | 28 | | .28 | .49 | .62 | .70 | .80 | .84 | .96 | 1.02 | 1.07 | 1.07 | 1.12 | 1.11 |
| DEC | 16 | | .37 | .48 | .55 | .60 | .68 | .71 | .74 | .76 | .80 | .80 | .81 | .81 |
| HAWAII | | | | | | | | | | | | | | |
| HILLO | | | | | | | | | | | | | | |
| FEB | 21 | | .14 | .29 | .37 | .43 | .64 | .75 | .88 | 1.05 | 1.20 | 1.25 | 1.34 | 1.44 |
| APR | 4 | | .23 | .38 | .46 | .47 | .58 | .60 | .61 | .61 | .79 | .80 | .86 | .88 |
| APR | 11 | | .23 | .35 | .37 | .38 | .39 | .39 | .40 | .40 | .51 | .51 | .52 | .53 |
| APR | 15 | | .20 | .38 | .44 | .49 | .45 | .45 | .44 | .46 | .51 | .55 | .67 | .66 |
| APR | 16 | | .17 | .26 | .39 | .45 | .56 | .65 | .74 | .78 | .91 | 1.03 | 1.07 | 1.00 |
| APR | 21 | | .28 | .50 | .74 | .93 | 1.08 | 1.47 | 1.65 | 1.90 | 2.21 | 2.62 | 3.17 | 3.44 |
| APR | 23 | | .24 | .36 | .44 | .47 | .57 | .67 | .73 | .81 | .82 | .82 | .82 | .82 |
| APR | 27 | | .21 | .39 | .52 | .63 | .87 | 1.27 | 1.48 | 1.66 | 1.68 | 1.68 | 1.68 | 1.68 |
| APR | 29 | | .19 | .32 | .43 | .45 | .54 | .63 | .63 | .64 | .73 | .85 | .95 | 1.00 |
| MAY | 1 | | .21 | .31 | .39 | .44 | .47 | .59 | .64 | .71 | .75 | .86 | .95 | 1.00 |
| MAY | 25 | | .14 | .25 | .34 | .38 | .56 | .66 | .70 | .86 | .94 | .99 | 1.07 | 1.11 |
| MAY | 26 | | .19 | .27 | .37 | .40 | .45 | .66 | .67 | .70 | .70 | .91 | 1.08 | 1.11 |
| MAY | 26 | | .23 | .39 | .50 | .57 | .65 | .94 | 1.22 | 1.58 | 1.81 | 2.00 | 2.41 | 2.50 |
| AUG | 25 | | .17 | .28 | .33 | .35 | .67 | .78 | .86 | 1.11 | 1.61 | 1.82 | 2.01 | 2.15 |
| AUG | 25 | | .21 | .21 | .29 | .37 | .51 | .71 | .94 | 1.23 | 1.50 | 1.72 | 2.03 | 2.15 |
| AUG | 25 | | .12 | .23 | .29 | .34 | .57 | .81 | 1.03 | 1.24 | 1.46 | 1.60 | 1.92 | 2.33 |
| OCT | 26 | | .22 | .35 | .38 | .44 | .66 | .48 | .48 | .48 | .48 | .63 | .99 | .99 |
| NOV | 4 | | .15 | .28 | .39 | .50 | .64 | .70 | .74 | .82 | 1.00 | 1.04 | 1.09 | 1.00 |
| DEC | 2 | | .34 | .62 | .75 | .85 | 1.16 | 1.26 | 1.38 | 1.43 | 1.53 | 1.78 | 2.33 | 2.50 |
| DEC | 2 | | .15 | .28 | .38 | .43 | .64 | .58 | .71 | .86 | .87 | 1.03 | 1.48 | 1.50 |
| DEC | 3 | | .25 | .35 | .42 | .46 | .59 | .63 | .64 | .64 | .64 | .64 | .65 | .65 |
| DEC | 3 | | .22 | .43 | .50 | .60 | .72 | .96 | 1.03 | 1.24 | 1.28 | 1.32 | 1.51 | 1.53 |
| DEC | 5 | | .15 | .25 | .36 | .44 | .53 | .53 | .53 | .59 | .62 | .62 | .62 | .62 |
| DEC | 11 | | .27 | .27 | .27 | .27 | .27 | .27 | .27 | .27 | .27 | .27 | .27 | .44 |
| DEC | 18 | | .20 | .30 | .36 | .37 | .66 | .60 | .75 | .78 | .82 | .94 | 1.02 | 1.20 |
| DEC | 18 | | .17 | .30 | .43 | .46 | .64 | .83 | .91 | .95 | 1.05 | 1.10 | 1.12 | 1.21 |
| HONOLULU | | | | | | | | | | | | | | |
| JAN | 6 | | .10 | .28 | .35 | .39 | .62 | .43 | .45 | .47 | .48 | .48 | .49 | .50 |
| NOV | 5 | | .23 | .42 | .52 | .55 | .67 | .58 | .73 | .83 | .91 | 1.09 | 1.62 | 1.41 |
| NOV | 27 | | .29 | .50 | .58 | .71 | .90 | .97 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| KAHULUI | | | | | | | | | | | | | | |
| JAN | 11 | | .22 | .38 | .45 | .46 | .48 | .63 | .66 | .69 | .70 | .70 | .73 | .77 |
| JAN | 13 | | .24 | .28 | .29 | .30 | .30 | .30 | .30 | .30 | .30 | .32 | .32 | .33 |
| JAN | 14 | | .16 | .25 | .32 | .46 | .53 | .57 | .57 | .58 | .59 | .62 | .63 | .65 |
| JAN | 20 | | .28 | .39 | .48 | .57 | .70 | .73 | .74 | .74 | .74 | .74 | .74 | .74 |
| NOV | 25 | | .16 | .29 | .30 | .43 | .50 | .66 | .69 | .69 | .69 | .69 | .69 | .69 |
| NOV | 26 | | .27 | .38 | .42 | .44 | .50 | .64 | .77 | .95 | 1.00 | 1.10 | 1.17 | 1.21 |
| LITHE | | | | | | | | | | | | | | |
| JAN | 13 | | .21 | .32 | .37 | .41 | .43 | .68 | .75 | .77 | 1.18 | 1.22 | 1.23 | 1.40 |
| APR | 11 | | .15 | .27 | .32 | .40 | .48 | .50 | .50 | .50 | .50 | .50 | .50 | .50 |
| MAY | 22 | | .24 | .42 | .44 | .49 | .50 | .52 | .54 | .57 | .57 | .58 | .58 | .58 |
| MAY | 22 | | .24 | .40 | .48 | .57 | .70 | .73 | .74 | 1.03 | 1.28 | 1.37 | 1.41 | 1.44 |
| NOV | 12 | | .27 | .28 | .28 | .28 | .28 | .28 | .28 | .28 | .28 | .32 | .32 | .33 |
| NOV | 19 | | .32 | .35 | .35 | .39 | .45 | .51 | .57 | .84 | .94 | 1.00 | 1.02 | 1.02 |
| NOV | 25 | | .25 | .43 | .57 | .74 | 1.06 | 1.46 | 1.63 | 1.82 | 1.86 | 1.87 | 1.88 | 1.88 |
| NOV | 26 | | .49 | .63 | .71 | .81 | .89 | .95 | .99 | 1.08 | 1.21 | 1.34 | 1.38 | 1.44 |
| NOV | 28 | | .18 | .28 | .38 | .44 | .44 | .56 | .71 | .96 | 1.14 | 1.46 | 1.67 | 2.05 |
| IDAHO | | | | | | | | | | | | | | |
| BOISE | | | | | | | | | | | | | | |
| LEWISTON | | | | | | | | | | | | | | |
| POCATELLO | | | | | | | | | | | | | | |
| ILLINOIS | | | | | | | | | | | | | | |
| CAIRO U | | | | | | | | | | | | | | |
| MAR | 25 | | .23 | .38 | .54 | .59 | .61 | .62 | .63 | .79 | .86 | .87 | .88 | .88 |
| APR | 1 | | .15 | .28 | .36 | .42 | .47 | .53 | .64 | .64 | .67 | .67 | .67 | .67 |
| APR | 12 | | .23 | .39 | .48 | .51 | .55 | .57 | .58 | .56 | .55 | .56 | .55 | .55 |
| APR | 19 | | .23 | .32 | .52 | .63 | .89 | 1.02 | 1.13 | 1.24 | 1.30 | 1.32 | 1.34 | 1.37 |
| APR | 23 | | .21 | .30 | .34 | .37 | .43 | .54 | .55 | .55 | .74 | .75 | .57 | .90 |
| APR | 24 | | *.42 | .54 | .62 | .67 | .73 | .84 | .92 | 1.05 | 1.11 | 1.17 | 1.30 | 1.40 |
| MAY | 10 | | .18 | .35 | .47 | .62 | .80 | .92 | .95 | .96 | 1.01 | 1.02 | 1.02 | 1.02 |
| JUN | 4 | | *.47 | *.71 | .85 | .91 | *.97 | .98 | .98 | .98 | .98 | .98 | .98 | .98 |
| JUN | 13 | | .27 | .53 | .60 | .67 | .69 | .69 | .73 | .80 | .83 | 1.01 | 1.03 | 1.03 |
| AUG | 4 | | .29 | .55 | .83 | 1.09 | 1.65 | 2.12 | 2.68 | 2.84 | 2.84 | 2.92 | 2.92 | 2.92 |
| AUG | 17 | | .28 | .50 | .66 | .78 | .93 | .97 | 1.07 | 1.04 | 1.00 | 1.00 | 1.00 | 1.00 |
| AUG | 20 | | .20 | .32 | .38 | .40 | .40 | .40 | .40 | .40 | .40 | .40 | .40 | .40 |
| SEP | 4 | | .17 | .34 | .38 | .43 | .48 | .51 | .67 | .73 | .74 | .74 | .74 | .74 |
| SEP | 9 | | .28 | .33 | .36 | .36 | .48 | .76 | .76 | .76 | .76 | .76 | .76 | .76 |
| SEP | 19 | | .23 | .30 | .46 | .51 | .54 | .62 | .65 | .72 | .74 | .74 | .75 | .75 |
| SEP | 26 | | .28 | .45 | .48 | .49 | .55 | .64 | .69 | .74 | .80 | .81 | .81 | .81 |
| NOV | 19 | | .22 | .35 | .44 | .45 | .46 | .47 | .47 | .47 | .47 | .47 | .49 | .51 |
| CHICAGO D HARE | | | | | | | | | | | | | | |
| MAY | 12 | | .35 | .58 | .64 | .72 | .72 | .72 | .75 | .75 | .75 | .75 | .75 | .75 |

T CLOCK MALFUNCTION
M NO RECORD

M NO RECORD

YEAR 1970

| Maximum precipitation in inches
(5 to 180 minutes) | | | | | | | | | | | | | | | | | Maximum precipitation in inches
(5 to 180 minutes) | | | | | | | | | | | | | | | | |
|---|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------------------|-----|-----|-----|---|-----|------|------|------|------|------|------|------|--|--|--|--|--|--|--|--|
| Station and date | 5 | 10 | 15 | 20 | 30 | 45 | 60 | 80 | 100 | 120 | 150 | 180 | Station and date | 5 | 10 | 15 | 20 | 30 | 45 | 60 | 80 | 100 | 120 | 150 | 180 | | | | | | | | |
| ILLINOIS | | | | | | | | | | | | | INDIANA | | | | | | | | | | | | | | | | | | | | |
| CHICAGO O'HARE | | | | | | | | | | | | | SOUTH BEND | | | | | | | | | | | | | | | | | | | | |
| JUL 30 | .16 | .25 | .33 | .43 | .60 | .79 | .91 | .95 | .99 | 1.03 | 1.13 | 1.18 | SEP 23 | .30 | .31 | .32 | .33 | .35 | .38 | .43 | .45 | .45 | .46 | .52 | .74 | | | | | | | | |
| JUL 31 | .23 | .38 | .58 | .67 | .77 | .91 | .99 | 1.02 | 1.05 | 1.12 | 1.19 | 1.21 | OCT 14 | .28 | .49 | .53 | .57 | .68 | .73 | .81 | .95 | 1.24 | 1.48 | 1.68 | 1.75 | | | | | | | | |
| SEP 9 | .20 | .28 | .42 | .50 | .65 | .67 | .71 | .78 | .88 | .87 | .87 | .87 | IOWA | | | | | | | | | | | | | | | | | | | | |
| SEP 15 | .18 | .32 | .38 | .43 | .57 | .55 | .67 | .68 | .68 | .68 | .76 | .80 | DES MOINES | | | | | | | | | | | | | | | | | | | | |
| CHICAGO MIDWAY | | | | | | | | | | | | | MAY 2 | | | | | | | | | | | | | | | | | | | | |
| APR 30 | .25 | .35 | .41 | .44 | .68 | .74 | .74 | .74 | .74 | .74 | .74 | .74 | APR 12 | .20 | .30 | .31 | .32 | .35 | .41 | .45 | .45 | .45 | .45 | .45 | .45 | | | | | | | | |
| APR 30 | .17 | .30 | .44 | .53 | .78 | .90 | .93 | 1.19 | 1.39 | 1.45 | 1.45 | 1.45 | APR 12 | .30 | .49 | .51 | .54 | .59 | .60 | .91 | 1.01 | 1.12 | 1.25 | 1.33 | 1.48 | | | | | | | | |
| MAY 23 | .25 | .38 | .43 | .45 | .47 | .50 | .54 | .54 | .54 | .54 | .55 | .55 | MAY 22 | .28 | .36 | .40 | .43 | .49 | .50 | .50 | .50 | .50 | .50 | .50 | .50 | | | | | | | | |
| JUN 20 | .40 | .45 | .45 | .45 | .75 | 1.00 | 1.15 | 1.15 | 1.35 | 1.40 | 1.50 | 1.67 | JUN 20 | .33 | .41 | .42 | .44 | .45 | .46 | .48 | .46 | .46 | .46 | .46 | .46 | | | | | | | | |
| JUL 2 | .23 | .43 | .48 | .49 | .49 | .49 | .51 | .51 | .51 | .51 | .51 | .51 | JUN 20 | .30 | .44 | .50 | .78 | .98 | 1.03 | 1.01 | 1.06 | 1.08 | 1.30 | 1.42 | 1.10 | | | | | | | | |
| JUL 29 | .25 | .39 | .41 | .42 | .42 | .43 | .45 | .48 | .48 | .48 | .48 | .48 | SEP 9 | .48 | .74 | .80 | .85 | .88 | .86 | .98 | 1.21 | 1.51 | 1.63 | 1.63 | 1.63 | | | | | | | | |
| AUG 18 | .27 | .40 | .58 | .66 | .85 | .87 | .87 | .87 | .87 | .87 | .87 | .87 | SEP 23 | .27 | .38 | .42 | .47 | .58 | .58 | .58 | .58 | .58 | .58 | .58 | .58 | | | | | | | | |
| AUG 19 | .32 | .38 | .50 | .50 | .50 | .51 | .55 | .55 | .55 | .55 | .55 | .55 | OCT 32 | .17 | .29 | .39 | .46 | .70 | .79 | .84 | .94 | 1.01 | 1.09 | 1.42 | 1.49 | | | | | | | | |
| SEP 21 | .36 | .42 | .44 | .44 | .45 | .49 | .49 | .49 | .49 | .50 | .50 | .50 | DUBUQUE | | | | | | | | | | | | | | | | | | | | |
| SEP 26 | .35 | .36 | .37 | .37 | .37 | .38 | .39 | .44 | .45 | .47 | .50 | .53 | MAY 12 | .25 | .50 | .63 | .75 | .76 | .76 | .81 | .95 | .98 | .98 | 1.00 | 1.00 | | | | | | | | |
| OCT 13 | .56 | .60 | .88 | .91 | .97 | 1.06 | 1.42 | 1.56 | 1.67 | 1.71 | 1.81 | 1.90 | MAY 23 | .18 | .35 | .36 | .38 | .61 | .50 | .52 | .52 | .53 | .53 | .56 | .56 | | | | | | | | |
| NOV 20 | .27 | .34 | .36 | .38 | .43 | .50 | .69 | .79 | .87 | .95 | 1.07 | 1.18 | MAY 24 | .22 | .40 | .41 | .42 | .43 | .43 | .43 | .44 | .44 | .45 | .47 | .45 | | | | | | | | |
| MOLINE | | | | | | | | | | | | | JUN 12 | | | | | | | | | | | | | | | | | | | | |
| APR 12 | .22 | .43 | .45 | .47 | .51 | .57 | .62 | .66 | .69 | .78 | .94 | 1.00 | JUL 19 | .23 | .45 | .49 | .55 | .60 | .62 | .63 | .63 | .63 | .63 | .63 | .63 | | | | | | | | |
| MAY 9 | .33 | .41 | .54 | .54 | .55 | .56 | .57 | .57 | .57 | .61 | .65 | .73 | JUL 27 | .25 | .40 | .45 | .53 | .55 | .56 | 1.02 | 1.05 | 1.06 | 1.07 | 1.08 | 1.08 | | | | | | | | |
| MAY 11 | .29 | .44 | .56 | .64 | .75 | .81 | .87 | .89 | .91 | .91 | .92 | .92 | AUG 8 | .14 | .27 | .30 | .32 | .55 | .75 | .95 | 1.13 | 1.28 | 1.40 | 1.50 | 1.59 | | | | | | | | |
| MAY 13 | .19 | .30 | .40 | .48 | .68 | .74 | .84 | .95 | 1.06 | 1.08 | 1.10 | 1.11 | SEP 6 | .21 | .39 | .42 | .56 | .69 | .75 | .80 | .86 | .90 | .95 | 1.13 | 1.13 | | | | | | | | |
| MAY 13 | .60 | .86 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

EXCESSIVE SHORT DURATION RAINFALL

YEAR 1970

| Station and date | | Maximum precipitation in inches
(5 to 180 minutes) | | | | | | | | | | | | Station and date | | Maximum precipitation in inches
(5 to 180 minutes) | | | | | | | | | | | |
|------------------|--|---|-----|------|------|------|------|------|------|------|------|------|------|------------------|--|---|----|----|----|----|----|----|----|-----|-----|-----|-----|
| | | 5 | 10 | 15 | 20 | 30 | 45 | 60 | 80 | 100 | 120 | 150 | 180 | | | 5 | 10 | 15 | 20 | 30 | 45 | 60 | 80 | 100 | 120 | 150 | 180 |
| KENTUCKY | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LOUISVILLE | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| JAN 29 | | .22 | .37 | .40 | .43 | .44 | .48 | .49 | .56 | .58 | .61 | .63 | .63 | | | | | | | | | | | | | | |
| APR 1 | | .42 | .63 | 1.05 | 1.20 | 1.60 | 1.93 | 2.04 | 2.18 | 2.27 | 2.35 | 2.65 | 2.80 | | | | | | | | | | | | | | |
| APR 23 | | .32 | .36 | .40 | .58 | .61 | .65 | .65 | .65 | .71 | .74 | 1.12 | 1.18 | | | | | | | | | | | | | | |
| APR 24 | | .30 | .40 | .46 | .49 | .51 | .55 | .58 | .62 | .68 | .79 | .81 | .82 | | | | | | | | | | | | | | |
| JUN 13 | | .45 | .65 | 7.5 | 1.05 | 1.17 | 1.19 | 1.22 | 1.23 | 1.25 | 1.32 | 1.33 | 1.33 | | | | | | | | | | | | | | |
| JUL 30 | | .25 | .41 | .51 | .57 | .77 | .84 | .84 | .85 | .85 | .85 | .85 | .85 | | | | | | | | | | | | | | |
| AUG 3 | | .22 | .37 | .38 | .40 | .47 | .47 | .47 | .57 | .67 | .67 | .67 | .67 | | | | | | | | | | | | | | |
| AUG 8 | | .18 | .33 | .39 | .52 | .70 | .93 | .96 | 1.15 | 1.32 | 1.53 | 1.72 | 1.85 | | | | | | | | | | | | | | |
| AUG 19 | | .26 | .51 | .62 | .71 | .90 | 1.10 | 1.44 | 1.55 | 1.58 | 1.58 | 1.58 | 1.58 | | | | | | | | | | | | | | |
| AUG 22 | | .47 | .75 | .80 | .80 | .80 | .85 | .85 | .90 | .90 | .90 | .90 | .90 | | | | | | | | | | | | | | |
| SEP 3 | | .25 | .35 | .55 | .60 | .64 | .66 | .66 | .66 | .66 | .66 | .66 | .66 | | | | | | | | | | | | | | |
| OCT 12 | | .18 | .33 | .42 | .54 | .63 | .71 | .71 | .75 | .75 | .75 | .77 | .83 | | | | | | | | | | | | | | |
| LOUISIANA | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ALEXANDRIA | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FEB 1 | | .17 | .32 | .33 | .35 | .44 | .51 | .60 | .68 | .77 | .80 | .83 | .85 | | | | | | | | | | | | | | |
| JUL 17 | | .41 | .77 | .90 | 1.09 | 1.32 | 1.34 | 1.35 | 1.36 | 1.40 | 1.44 | 1.45 | 1.45 | | | | | | | | | | | | | | |
| JUL 26 | | .34 | .48 | .56 | .62 | .62 | .62 | .62 | .62 | .70 | .75 | .83 | .83 | | | | | | | | | | | | | | |
| JUL 27 | | .40 | .48 | .49 | .53 | .53 | .53 | .53 | .53 | .53 | .53 | .53 | .53 | | | | | | | | | | | | | | |
| AUG 7 | | .23 | .35 | .37 | .46 | .50 | .52 | .53 | .55 | .58 | .60 | .61 | .61 | | | | | | | | | | | | | | |
| AUG 17 | | .24 | .43 | .52 | .69 | .74 | .75 | .75 | .75 | .75 | .75 | .75 | .75 | | | | | | | | | | | | | | |
| AUG 23 | | .20 | .35 | .36 | .36 | .37 | .40 | .40 | .40 | .40 | .40 | .40 | .40 | | | | | | | | | | | | | | |
| SEP 26 | | .32 | .64 | .79 | 1.05 | 1.34 | 1.49 | 1.60 | 1.66 | 1.66 | 1.66 | 1.66 | 1.66 | | | | | | | | | | | | | | |
| OCT 11 | | .32 | .63 | .75 | .96 | 1.23 | 1.45 | 1.72 | 2.06 | 2.22 | 2.35 | 2.50 | 2.58 | | | | | | | | | | | | | | |
| OCT 27 | | .26 | .44 | .54 | .62 | .66 | .70 | .72 | .74 | .90 | .92 | .98 | 1.09 | | | | | | | | | | | | | | |
| NOV 13 | | .20 | .30 | .35 | .50 | .65 | .77 | .94 | 1.12 | 1.27 | 1.37 | 1.51 | 1.62 | | | | | | | | | | | | | | |
| DEC 29 | | .22 | .33 | .35 | .52 | .60 | .60 | .60 | .60 | .60 | .60 | .60 | .60 | | | | | | | | | | | | | | |
| BATON ROUGE | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FEB 1 | | .31 | .43 | .45 | .48 | .60 | .69 | .80 | .87 | .88 | .89 | .91 | .92 | | | | | | | | | | | | | | |
| MAR 3 | | .32 | .57 | .78 | .97 | 1.38 | 2.08 | 2.76 | 2.93 | 3.00 | 3.05 | 3.13 | 3.25 | | | | | | | | | | | | | | |
| MAR 17 | | .22 | .37 | .42 | .47 | .54 | .60 | .64 | .70 | .75 | .77 | .78 | .78 | | | | | | | | | | | | | | |
| APR 11 | | .31 | .33 | .35 | .36 | .43 | .65 | .72 | .75 | .77 | .77 | .77 | .79 | | | | | | | | | | | | | | |
| APR 15 | | .35 | .57 | .67 | .73 | .78 | .91 | .91 | 1.15 | 1.15 | 1.15 | 1.15 | 1.15 | | | | | | | | | | | | | | |
| MAY 2 | | .21 | .33 | .37 | .43 | .61 | .67 | .82 | 1.03 | 1.34 | 1.57 | 1.73 | 1.85 | | | | | | | | | | | | | | |
| MAY 19 | | .22 | .33 | .37 | .38 | .40 | .45 | .46 | .47 | .48 | .48 | .48 | .48 | | | | | | | | | | | | | | |
| MAY 27 | | .26 | .31 | .36 | .40 | .41 | .42 | .44 | .45 | .45 | .45 | .45 | .45 | | | | | | | | | | | | | | |
| MAY 31 | | .25 | .42 | .47 | .54 | .55 | .55 | .55 | .55 | .55 | .55 | .55 | .55 | | | | | | | | | | | | | | |
| JUN 2 | | .23 | .45 | .55 | .69 | .70 | .75 | .79 | .85 | .85 | .85 | .85 | .85 | | | | | | | | | | | | | | |
| JUN 23 | | .23 | .41 | .55 | .68 | .90 | 1.04 | 1.12 | 1.16 | 1.18 | 1.18 | 1.18 | 1.18 | | | | | | | | | | | | | | |
| JUL 13 | | .18 | .34 | .37 | .46 | .54 | .60 | .60 | .62 | .63 | .65 | .70 | .70 | | | | | | | | | | | | | | |
| JUL 15 | | .30 | .60 | .65 | .80 | 1.08 | 1.49 | 1.54 | 1.57 | 1.60 | 1.60 | 1.60 | 1.60 | | | | | | | | | | | | | | |
| JUL 17 | | .33 | .61 | .62 | .63 | .70 | .80 | 1.07 | 1.10 | 1.12 | 1.17 | 1.47 | 1.27 | | | | | | | | | | | | | | |
| AUG 5 | | .30 | .60 | .75 | .93 | 1.27 | 1.34 | 1.37 | 1.41 | 1.49 | 1.52 | 1.56 | 1.58 | | | | | | | | | | | | | | |
| AUG 15 | | .16 | .25 | .38 | .48 | .55 | .61 | .66 | .67 | .67 | .67 | .67 | .67 | | | | | | | | | | | | | | |
| AUG 17 | | .27 | .55 | .79 | .93 | 1.06 | .68 | 1.57 | 1.59 | 1.60 | 1.60 | 1.60 | 1.60 | | | | | | | | | | | | | | |
| AUG 22 | | .20 | .30 | .33 | .33 | .33 | .33 | .33 | .33 | .33 | .33 | .33 | .33 | | | | | | | | | | | | | | |
| AUG 30 | | .35 | .52 | .53 | .55 | .63 | .64 | .65 | .70 | .73 | .75 | .78 | .79 | | | | | | | | | | | | | | |
| SEP 6 | | .25 | .48 | .57 | .65 | .91 | 1.08 | 1.10 | 1.10 | 1.10 | 1.10 | 1.10 | 1.10 | | | | | | | | | | | | | | |
| OCT 8 | | .34 | .47 | .54 | .56 | .58 | .59 | .59 | .59 | .59 | .59 | .59 | .59 | | | | | | | | | | | | | | |
| OCT 12 | | .35 | .55 | .69 | .80 | 1.14 | 1.32 | 1.46 | 1.50 | 1.53 | 1.53 | 1.60 | 1.65 | | | | | | | | | | | | | | |
| OCT 13 | | .18 | .30 | .33 | .35 | .38 | .44 | .59 | .60 | .60 | .60 | .60 | .60 | | | | | | | | | | | | | | |
| OCT 27 | | .22 | .37 | .45 | .58 | .83 | 1.04 | 1.16 | 1.22 | 1.30 | 1.35 | 1.48 | 1.60 | | | | | | | | | | | | | | |
| NOV 9 | | .25 | .30 | .30 | .30 | .30 | .30 | .30 | .30 | .30 | .30 | .30 | .30 | | | | | | | | | | | | | | |
| NOV 13 | | .38 | .60 | .65 | .68 | .70 | .73 | .77 | .80 | .84 | .86 | .86 | .86 | | | | | | | | | | | | | | |
| DEC 11 | | .33 | .57 | .67 | .70 | .77 | .87 | .99 | 1.09 | 1.15 | 1.19 | 1.28 | 1.40 | | | | | | | | | | | | | | |
| LAKE CHARLES | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FEB 15 | | .26 | .41 | .41 | .42 | .46 | .50 | .54 | .55 | .55 | .55 | .55 | .55 | | | | | | | | | | | | | | |
| MAR 3 | | .25 | .35 | .40 | .46 | .80 | .76 | 1.06 | 1.12 | 1.18 | 1.21 | 1.24 | 1.26 | | | | | | | | | | | | | | |
| MAR 10 | | .20 | .38 | .40 | .50 | .60 | .67 | .73 | .80 | .83 | .90 | .95 | .95 | | | | | | | | | | | | | | |
| MAR 17 | | .30 | .37 | .39 | .42 | .48 | .51 | .55 | .60 | .62 | .74 | .78 | .78 | | | | | | | | | | | | | | |
| MAY 20 | | .45 | .80 | 1.10 | 1.25 | 1.40 | 1.50 | 1.55 | 1.55 | 1.55 | 1.55 | 1.55 | 1.55 | | | | | | | | | | | | | | |
| JUN 1 | | .30 | .40 | .40 | .50 | .68 | .80 | .90 | 1.05 | 1.30 | 1.40 | 1.55 | 1.60 | | | | | | | | | | | | | | |
| JUN 22 | | .26 | .45 | .55 | .70 | .85 | 1.00 | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 | | | | | | | | | | | | | | |
| JUN 25 | | .18 | .32 | .40 | .42 | .47 | .51 | .51 | .51 | .51 | .51 | .51 | .51 | | | | | | | | | | | | | | |
| AUG 11 | | .28 | .33 | .43 | .44 | .44 | .45 | .49 | .50 | .50 | .50 | .61 | .62 | | | | | | | | | | | | | | |
| AUG 19 | | .28 | .33 | .41 | .47 | .48 | .50 | .50 | .51 | .55 | .55 | .55 | .55 | | | | | | | | | | | | | | |
| AUG 23 | | .16 | .32 | .35 | .41 | .42 | .43 | .43 | .43 | .44 | .47 | .48 | .48 | | | | | | | | | | | | | | |
| SEP 16 | | .26 | .42 | .47 | .49 | .52 | .54 | .57 | .63 | .70 | 1.09 | 1.27 | 1.31 | | | | | | | | | | | | | | |
| OCT 6 | | .32 | .50 | .60 | .72 | .90 | 1.25 | 1.50 | 1.83 | 2.09 | 2.19 | 2.28 | 2.65 | | | | | | | | | | | | | | |
| OCT 11 | | .25 | .41 | .51 | .54 | .65 | .66 | .67 | .67 | .68 | .68 | .70 | .72 | | | | | | | | | | | | | | |
| OCT 11 | | .55 | .85 | .95 | 1.25 | 1.75 | 2.04 | 2.80 | 2.82 | 2.84 | 2.92 | 3.07 | 3.08 | | | | | | | | | | | | | | |
| OCT 12 | | .27 | .30 | .31 | .31 | .33 | .33 | .42 | .50 | .52 | .52 | .52 | .52 | | | | | | | | | | | | | | |
| OCT 27 | | .40 | .65 | .80 | .96 | 1.25 | 1.80 | 2.28 | 2.70 | 2.90 | 3.44 | 4.00 | 4.14 | | | | | | | | | | | | | | |
| NOV 13 | | .23 | .31 | .34 | .43 | .60 | .70 | .85 | 1.08 | 1.21 | 1.23 | 1.28 | 1.28 | | | | | | | | | | | | | | |
| DEC 11 | | .26 | .40 | .42 | .50 | .58 | .65 | .80 | .97 | 1.02 | 1.02 | 1.10 | 1.14 | | | | | | | | | | | | | | |
| DEC 30 | | .45 | .55 | .60 | .75 | .83 | .87 | .90 | .93 | .94 | .95 | .95 | .95 | | | | | | | | | | | | | | |
| NEW ORLEANS | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| JAN 29 | | .14 | .24 | .28 | .37 | .50 | .70 | .83 | .84 | .86 | .87 | .87 | | | | | | | | | | | | | | | |

EXCESSIVE SHORT DURATION RAINFALL

| Station and date | Maximum precipitation in inches
(5 to 180 minutes) | | | | | | | | | | | |
|---------------------|---|------|------|------|------|------|------|------|------|------|------|------|
| | 5 | 10 | 15 | 20 | 30 | 45 | 60 | 80 | 100 | 120 | 150 | 180 |
| MICHIGAN | | | | | | | | | | | | |
| MARQUETTE J | | | | | | | | | | | | |
| SEP 3 | .17 | .23 | .35 | .42 | .44 | .46 | .49 | .49 | .49 | .49 | .49 | .49 |
| SEP 20 | .22 | .30 | .36 | .41 | .45 | .48 | .51 | .54 | .57 | .57 | .58 | .58 |
| MINNESOTA | | | | | | | | | | | | |
| HJULSON | | | | | | | | | | | | |
| APR 30 | .38 | .63 | .73 | .75 | .79 | .83 | .81 | .84 | .89 | .95 | 1.07 | 1.22 |
| JUL 2 | .22 | .39 | .41 | .44 | .44 | .46 | .46 | .46 | .46 | .46 | .46 | .46 |
| JUL 14 | .20 | .31 | .33 | .41 | .52 | .62 | .63 | .65 | .67 | .67 | .67 | .77 |
| SEP 2 | .20 | .33 | .42 | .55 | .60 | .60 | .63 | .64 | .66 | .66 | .66 | .66 |
| SEP 7 | .17 | .31 | .38 | .41 | .41 | .41 | .41 | .41 | .41 | .41 | .41 | .41 |
| SEP 15 | .22 | .29 | .35 | .50 | .67 | .83 | .92 | 1.00 | 1.04 | 1.08 | 1.08 | 1.08 |
| SAULT STE MARIE | | | | | | | | | | | | |
| MAY 31 | .28 | .42 | .48 | .58 | .77 | .84 | 1.06 | 1.32 | 1.51 | 1.55 | 1.57 | 1.71 |
| MAY 31 | .15 | .26 | .34 | .46 | .65 | .77 | .92 | 1.09 | 1.34 | 1.58 | 1.74 | 1.98 |
| AUG 30 | .30 | .44 | .46 | .47 | .49 | .49 | .49 | .49 | .49 | .50 | .52 | .52 |
| SEP 8 | .27 | .37 | .38 | .41 | .58 | .65 | .67 | .68 | .69 | .70 | .70 | .70 |
| MINNESOTA | | | | | | | | | | | | |
| DULUTH | | | | | | | | | | | | |
| JUL 7 | .33 | .46 | .50 | .59 | .76 | .84 | .84 | .84 | .84 | .84 | .84 | .84 |
| JUL 18 | .24 | .43 | .44 | .49 | .53 | .59 | .70 | .82 | .84 | .85 | 1.18 | |
| INTERNATIONAL FALLS | | | | | | | | | | | | |
| JUN 9 | .40 | .50 | .54 | .55 | .55 | .55 | .55 | .55 | .71 | .83 | .85 | .88 |
| MINNEAPOLIS | | | | | | | | | | | | |
| APR 29 | .47 | .84 | .88 | .95 | .99 | .99 | .99 | .99 | .99 | .99 | .99 | .99 |
| MAY 22 | .36 | .44 | .46 | .51 | .73 | .85 | .93 | .95 | .96 | .98 | 1.05 | 1.05 |
| JUL 18 | .25 | .44 | .60 | .80 | 1.01 | 1.06 | 1.08 | 1.08 | 1.08 | 1.08 | 1.08 | 1.08 |
| JUL 26 | .28 | .38 | .52 | .56 | .60 | .61 | .61 | .62 | .62 | .63 | .63 | .63 |
| JUL 29 | .52 | .72 | .75 | .76 | .78 | .78 | .79 | .82 | .86 | .88 | .91 | .92 |
| ROCHESTER | | | | | | | | | | | | |
| MAY 25 | .24 | .38 | .50 | .61 | .78 | .80 | .85 | .88 | .89 | .89 | .89 | .89 |
| MAY 27 | .15 | .26 | .36 | .46 | .68 | .86 | 1.16 | 1.34 | 1.49 | 1.60 | 1.62 | 1.62 |
| MAY 31 | .35 | .48 | .50 | .50 | .51 | .51 | .51 | .51 | .53 | .56 | .56 | .56 |
| JUN 12 | .28 | .35 | .43 | .49 | .49 | .49 | .49 | .49 | .49 | .49 | .49 | .49 |
| JUN 17 | .35 | .52 | .67 | .72 | .75 | .80 | .84 | .84 | .84 | .84 | .84 | .84 |
| JUL 18 | .30 | .50 | .64 | .74 | .90 | .93 | .93 | .94 | .95 | .95 | .95 | .96 |
| JUL 26 | .15 | .24 | .34 | .45 | .56 | .70 | .88 | .97 | .99 | 1.00 | 1.01 | 1.01 |
| JUL 29 | .23 | .36 | .42 | .52 | .62 | .73 | .75 | .76 | .76 | .76 | .76 | .76 |
| SEP 6 | .28 | .43 | .46 | .49 | .69 | .76 | .76 | .76 | .76 | .76 | .76 | .76 |
| SEP 21 | .20 | .26 | .28 | .33 | .54 | .58 | .59 | .59 | .70 | .70 | .70 | .70 |
| DCT 7 | .22 | .31 | .38 | .48 | .59 | .67 | .79 | 1.04 | 1.06 | 1.07 | 1.08 | 1.11 |
| ST CLOUD | | | | | | | | | | | | |
| JUN 12 | .22 | .33 | .35 | .38 | .40 | .47 | .52 | .53 | .53 | .53 | .53 | .53 |
| JUN 15 | .31 | .38 | .42 | .45 | .52 | .55 | .61 | .62 | .62 | .62 | .62 | .62 |
| JUN 18 | .41 | .41 | .42 | .42 | .42 | .42 | .42 | .42 | .42 | .42 | .42 | .42 |
| JUL 18 | .60 | 1.19 | 1.39 | 1.65 | 1.77 | 1.80 | 1.81 | 1.81 | 1.85 | 1.86 | 1.87 | 1.87 |
| JUL 26 | .20 | .40 | .44 | .46 | .48 | .49 | .82 | .85 | .87 | .89 | .93 | .94 |
| AUG 14 | .20 | .33 | .34 | .38 | .40 | .41 | .43 | .45 | .47 | .48 | .49 | .49 |
| DCT 25 | .24 | .34 | .35 | .38 | .40 | .41 | .42 | .42 | .42 | .42 | .42 | .42 |
| MISSISSIPPI | | | | | | | | | | | | |
| JACKSON | | | | | | | | | | | | |
| FEB 1 | .32 | .44 | .46 | .48 | .51 | .53 | .58 | .69 | .74 | .80 | .82 | .82 |
| MAR 19 | .25 | .31 | .32 | .35 | .60 | .67 | .70 | .75 | .76 | .93 | 1.03 | 1.27 |
| APR 19 | .34 | .42 | .47 | .52 | .61 | .67 | .70 | .74 | .74 | .75 | .87 | .83 |
| JUN 1 | .38 | .58 | .69 | .83 | .92 | .94 | .95 | .98 | .99 | .99 | .99 | .99 |
| JUL 23 | .30 | .40 | .42 | .44 | .51 | .52 | .55 | .55 | .55 | .55 | .57 | .58 |
| AUG 7 | .30 | .50 | .55 | .62 | .65 | .65 | .65 | .65 | .65 | .65 | .68 | .69 |
| AUG 20 | .30 | .56 | .68 | .92 | 1.22 | 1.41 | 1.50 | 1.51 | 1.51 | 1.53 | 1.54 | 1.54 |
| AUG 22 | .22 | .32 | .34 | .34 | .34 | .34 | .34 | .39 | .45 | .49 | .49 | .49 |
| SEP 10 | .32 | .61 | .67 | .90 | 1.26 | 1.52 | 2.08 | 2.44 | 2.72 | 2.76 | 2.80 | 2.82 |
| SEP 26 | .33 | .60 | .70 | .83 | 1.15 | 1.32 | 1.77 | 2.25 | 2.74 | 3.02 | 3.25 | 3.30 |
| DCT 12 | .35 | .50 | .52 | .57 | .65 | 1.00 | 1.25 | 1.34 | 1.38 | 1.39 | 1.44 | 1.57 |
| DCT 13 | .22 | .35 | .43 | .55 | .65 | .73 | .76 | .80 | .86 | .93 | 1.03 | 1.07 |
| DCT 19 | .26 | .48 | .50 | .67 | .85 | 1.02 | 1.25 | 1.60 | 1.77 | 1.90 | 2.00 | 2.05 |
| NOV 19 | .32 | .38 | .46 | .50 | .84 | .85 | .85 | .85 | .85 | .85 | .85 | .85 |
| MERIDIAN | | | | | | | | | | | | |
| FEB 1 | .35 | .40 | .42 | .43 | .45 | .50 | .58 | .65 | .70 | .73 | .77 | .78 |
| MAR 19 | .35 | .54 | .62 | .81 | .99 | .99 | .99 | .99 | .99 | .99 | 1.02 | 1.05 |
| JUN 2 | .30 | .53 | .55 | .62 | .84 | .84 | .84 | .84 | .84 | .84 | .84 | .84 |
| JUN 24 | .21 | .39 | .43 | .49 | .54 | .56 | .61 | .62 | .62 | .62 | .62 | .62 |
| JUL 17 | .24 | .35 | .38 | .41 | .65 | .71 | .97 | .98 | .98 | .98 | .98 | .98 |
| JUL 25 | .60 | 1.10 | 1.45 | 1.47 | 1.56 | 1.60 | 1.62 | 1.62 | 1.62 | 1.62 | 1.62 | 1.62 |
| AUG 7 | .28 | .49 | .68 | .72 | .91 | .91 | .91 | .91 | .91 | .91 | .91 | .91 |
| AUG 18 | .15 | .25 | .35 | .40 | .47 | .55 | .56 | .56 | .60 | .63 | .64 | .68 |
| AUG 21 | .33 | .50 | .65 | .97 | 1.22 | 1.28 | 1.35 | 1.42 | 1.42 | 1.42 | 1.48 | 1.48 |
| AUG 22 | .16 | .25 | .35 | .40 | .43 | .43 | .43 | .43 | .43 | .43 | .43 | .43 |
| AUG 23 | .30 | .48 | .57 | .60 | .65 | .65 | .67 | .67 | .67 | .67 | .72 | .77 |
| SEP 3 | .20 | .35 | .40 | .45 | .47 | .47 | .47 | .47 | .47 | .47 | .47 | .47 |
| SEP 24 | .26 | .32 | .37 | .51 | .71 | .76 | .77 | .77 | .78 | .77 | .79 | .79 |
| SEP 9 | .42 | .53 | .60 | .66 | .70 | .77 | .77 | .78 | .81 | .82 | .82 | .84 |
| DCT 19 | .20 | .40 | .54 | .68 | .75 | .80 | .80 | .80 | .80 | .86 | .99 | 1.05 |
| DCT 19 | .24 | .47 | .54 | .71 | .97 | 1.23 | 1.45 | 1.65 | 1.70 | 1.73 | 1.94 | 2.20 |
| DCT 19 | .27 | .52 | .54 | .62 | 1.05 | 1.24 | 1.45 | 1.59 | 1.62 | 1.64 | 1.69 | 1.69 |
| MISSOURI | | | | | | | | | | | | |
| COLUMBIA | | | | | | | | | | | | |
| APR 18 | .34 | .54 | .58 | .61 | .62 | .64 | .66 | .72 | .99 | 1.26 | 1.68 | 1.76 |
| MAY 10 | .40 | .64 | .82 | 1.01 | 1.05 | 1.07 | 1.07 | 1.08 | 1.08 | 1.08 | 1.08 | 1.08 |
| MAY 14 | .35 | .70 | .80 | 1.00 | 1.24 | 1.33 | 1.52 | 1.55 | 1.73 | 1.77 | 1.81 | 2.43 |
| MAY 22 | .42 | .66 | .72 | .78 | .79 | .80 | .84 | .84 | .85 | .90 | .90 | .90 |
| MAY 31 | .30 | .38 | .50 | .62 | .74 | .76 | .82 | .86 | .91 | .92 | .92 | .92 |
| JUN 12 | .29 | .45 | .56 | .71 | .76 | .79 | .91 | .91 | .92 | .92 | .92 | .92 |
| JUL 28 | .32 | .43 | .61 | .61 | .73 | .77 | .77 | .78 | .81 | .82 | .82 | .84 |
| JUL 31 | .26 | .38 | .40 | .44 | .52 | .55 | .55 | .82 | .82 | .83 | .86 | .87 |
| AUG 9 | .19 | .28 | .32 | .43 | .47 | .48 | .50 | .51 | .51 | .54 | .56 | .57 |
| AUG 17 | .29 | .42 | .53 | .67 | .92 | .96 | .96 | .96 | .97 | .98 | .98 | 1.09 |
| SEP 2 | .25 | .41 | .52 | .62 | .77 | 1.02 | 1.10 | 1.18 | 1.29 | 1.56 | 1.71 | 1.75 |
| SEP 23 | .36 | .59 | .75 | .87 | 1.07 | 1.15 | 1.24 | 1.30 | 1.31 | 1.31 | 1.31 | 1.31 |
| SEP 25 | .20 | .33 | .41 | .44 | .46 | .47 | .47 | .47 | .47 | .47 | .47 | .47 |
| DCT 26 | .20 | .32 | .46 | .52 | .57 | .62 | .67 | .71 | .75 | .77 | .84 | .89 |

| Station and date | | Maximum precipitation in inches
(5 to 180 minutes) | | | | | | | | | | | |
|------------------|--|---|-----|------|------|------|------|------|------|------|------|------|------|
| | | 5 | 10 | 15 | 20 | 30 | 45 | 60 | 80 | 100 | 120 | 150 | 180 |
| MISSOURI | | | | | | | | | | | | | |
| KANSAS CITY | | | | | | | | | | | | | |
| MAY 9 | | .20 | .35 | .50 | .54 | .60 | .62 | .62 | .72 | .62 | .62 | .62 | .62 |
| MAY 14 | | .21 | .34 | .50 | .53 | .63 | .68 | .69 | .69 | .69 | .69 | .69 | .70 |
| MAY 29 | | .25 | .32 | .35 | .36 | .36 | .36 | .36 | .36 | .36 | .36 | .36 | .36 |
| AUG 20 | | .15 | .30 | .40 | .47 | .54 | .62 | .63 | .64 | .65 | .66 | .76 | .83 |
| AUG 22 | | .30 | .38 | .43 | .52 | .64 | .68 | .73 | .75 | .75 | .76 | .93 | .97 |
| SEP 3 | | .32 | .59 | .86 | .90 | 1.00 | 1.00 | 1.00 | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 |
| SEP 9 | | .26 | .38 | .42 | .46 | .55 | .60 | .63 | .64 | .65 | .66 | .66 | .66 |
| SEP 21 | | .25 | .45 | .55 | .60 | .68 | 1.06 | 1.21 | 1.33 | 1.38 | 1.53 | 2.08 | 2.23 |
| DEC 10 | | .15 | .25 | .35 | .45 | .65 | .72 | .78 | .79 | .81 | .82 | .82 | .82 |
| ST LOUIS | | | | | | | | | | | | | |
| APR 12 | | .24 | .44 | .66 | .70 | .76 | .84 | .84 | .86 | .86 | .86 | .86 | .86 |
| APR 23 | | .21 | .38 | .46 | .60 | .70 | .76 | 1.20 | 1.28 | 1.30 | 1.32 | 1.32 | 1.32 |
| APR 30 | | .22 | .44 | .56 | .56 | .56 | .63 | .64 | .64 | .65 | .66 | .68 | .69 |
| MAY 14 | | .21 | .35 | .43 | .47 | .55 | .56 | .57 | .58 | .59 | .60 | .60 | .60 |
| JUN 12 | | .20 | .26 | .40 | .51 | .70 | .87 | .93 | .93 | .93 | .93 | .93 | .93 |
| JUN 24 | | .24 | .34 | .36 | .39 | .51 | .89 | .83 | .99 | .90 | .90 | .90 | .90 |
| AUG 8 | | .29 | .53 | .54 | .57 | .75 | .81 | .83 | .92 | 1.27 | 1.21 | 1.30 | 1.30 |
| AUG 17 | | .18 | .36 | .44 | .46 | .50 | .52 | .54 | .59 | .54 | .60 | .78 | .82 |
| AUG 20 | | .20 | .26 | .37 | .49 | .63 | .80 | .92 | .97 | .97 | .97 | .97 | .97 |
| SEP 8 | | .16 | .28 | .38 | .40 | .41 | .42 | .42 | .42 | .52 | .52 | .70 | .93 |
| SEP 8 | | .16 | .28 | .34 | .47 | .47 | .48 | .48 | .48 | .48 | .48 | .49 | .50 |
| SPRINGFIELD | | | | | | | | | | | | | |
| MAY 9 | | .16 | .32 | .36 | .35 | .38 | .38 | .38 | .38 | .40 | .40 | .40 | .42 |
| APR 30 | | .18 | .34 | .40 | .47 | .59 | .61 | .63 | .64 | .66 | .66 | .69 | .69 |
| MAY 29 | | .26 | .37 | .37 | .37 | .37 | .37 | .37 | .38 | .38 | .38 | .38 | .38 |
| JUN 2 | | .15 | .22 | .36 | .43 | .60 | .71 | .74 | .82 | .82 | .82 | .84 | .84 |
| JUN 4 | | .20 | .35 | .37 | .40 | .41 | .43 | .49 | .49 | .62 | .63 | .65 | .68 |
| JUN 11 | | .30 | .39 | .44 | .46 | .49 | .51 | .55 | .60 | .64 | .68 | .71 | .75 |
| JUN 20 | | .23 | .36 | .46 | .54 | .59 | .63 | .63 | .65 | .66 | .66 | .66 | .66 |
| JUN 24 | | .27 | .42 | .48 | .62 | .74 | .79 | .81 | .88 | 1.10 | 1.23 | 1.43 | 1.58 |
| AUG 2 | | .27 | .40 | .60 | .72 | .81 | 1.12 | 1.18 | 1.19 | 1.20 | 1.21 | 1.22 | 1.26 |
| AUG 22 | | .28 | .38 | .46 | .50 | .54 | .54 | .54 | .54 | .54 | .55 | .61 | .65 |
| SEP 2 | | .25 | .50 | .62 | .72 | .80 | .85 | .89 | .94 | 1.04 | 1.12 | 1.13 | 1.14 |
| SEP 3 | | .26 | .43 | .55 | .64 | .78 | .84 | .84 | .84 | .87 | .87 | .87 | .88 |
| SEP 23 | | .26 | .32 | .42 | .50 | .67 | .72 | .72 | .72 | .72 | .72 | .72 | .72 |
| OCT 26 | | .20 | .35 | .39 | .43 | .45 | .50 | .54 | .58 | .65 | .71 | .83 | .92 |
| MONTANA | | | | | | | | | | | | | |
| BILLINGS | | | | | | | | | | | | | |
| MAY 27 | | .27 | .30 | .33 | .33 | .33 | .33 | .33 | .33 | .33 | .33 | .33 | .33 |
| GLASGOW | | | | | | | | | | | | | |
| NONE | | | | | | | | | | | | | |
| GREAT FALLS | | | | | | | | | | | | | |
| MAY 19 | | .18 | .30 | .40 | .48 | .48 | .48 | .48 | .50 | .50 | .50 | .50 | .50 |
| JUN 27 | | .20 | .32 | .42 | .46 | .52 | .54 | .55 | .55 | .55 | .55 | .55 | .55 |
| AUG 2 | | .40 | .48 | .59 | .62 | .62 | .62 | .62 | .62 | .62 | .62 | .62 | .62 |
| HAYRE | | | | | | | | | | | | | |
| JUL 27 | | .19 | .35 | .37 | .37 | .37 | .37 | .37 | .37 | .37 | .37 | .37 | .37 |
| HELENA | | | | | | | | | | | | | |
| JUN 27 | | .24 | .35 | .40 | .52 | .55 | .55 | .56 | .60 | .60 | .60 | .60 | .60 |
| KALISPELL | | | | | | | | | | | | | |
| NONE | | | | | | | | | | | | | |
| MISSOULA | | | | | | | | | | | | | |
| JUN 27 | | .28 | .40 | .45 | .53 | .59 | .61 | .61 | .61 | .61 | .61 | .61 | .61 |
| NEBRASKA | | | | | | | | | | | | | |
| GRAND ISLAND | | | | | | | | | | | | | |
| MAY 30 | | .16 | .30 | .35 | .41 | .49 | .50 | .53 | .58 | .59 | .60 | .63 | .66 |
| AUG 1 | | .40 | .80 | 1.05 | 1.30 | 1.50 | 1.94 | 2.09 | 2.11 | 2.13 | 2.13 | 2.13 | 2.18 |
| SEP 14 | | .33 | .48 | .67 | .82 | .78 | .87 | 1.07 | 1.04 | 1.18 | 1.14 | 1.22 | 1.35 |
| LINCOLN | | | | | | | | | | | | | |
| MAY 24 | | .40 | .69 | 1.09 | 1.28 | 1.43 | 1.62 | 1.43 | 1.43 | 1.43 | 1.43 | 1.43 | 1.43 |
| JUN 19 | | .18 | .31 | .39 | .42 | .42 | .42 | .42 | .42 | .42 | .42 | .42 | .42 |
| JUL 13 | | .24 | .48 | .68 | .90 | 1.04 | .73 | 1.26 | 1.26 | 1.26 | 1.26 | 1.26 | 1.26 |
| JUL 14 | | .24 | .43 | .67 | .74 | .81 | .84 | .87 | .87 | .91 | .94 | .92 | .92 |
| SEP 2 | | .20 | .40 | .67 | .52 | .60 | .65 | .67 | .70 | .72 | .74 | .76 | .76 |
| NORFOLK | | | | | | | | | | | | | |
| MAY 12 | | .30 | .39 | .40 | .46 | .57 | .62 | .67 | .67 | .67 | .67 | .67 | .67 |
| MAY 30 | | .40 | .78 | .80 | .87 | 1.02 | 1.30 | 1.53 | 1.55 | 1.57 | 1.57 | 1.58 | 1.59 |
| JUN 10 | | .29 | .54 | .70 | .81 | .86 | .87 | .88 | .88 | .88 | .99 | 1.02 | 1.05 |
| AUG 2 | | .18 | .30 | .38 | .45 | .57 | .69 | .70 | .71 | .75 | .75 | .75 | .75 |
| SEP 2 | | .47 | .76 | .88 | 1.00 | 1.32 | 1.63 | 1.92 | 2.25 | 2.33 | 2.44 | 3.55 | 3.72 |
| NORTH PLATTE | | | | | | | | | | | | | |
| JUN 11 | | .31 | .56 | .63 | .70 | .75 | .78 | .84 | .93 | 1.23 | 1.39 | 1.19 | 1.58 |
| JUN 18 | | .23 | .32 | .36 | .38 | .41 | .47 | .50 | .57 | .61 | .66 | .73 | .74 |
| SEP 3 | | .26 | .37 | .43 | .57 | .59 | .59 | .59 | .59 | .59 | .59 | .59 | .59 |
| OMAHA | | | | | | | | | | | | | |
| MAY 12 | | .16 | .26 | .31 | .38 | .53 | .55 | .57 | .57 | .57 | .57 | .57 | .57 |
| MAY 22 | | .34 | .63 | .70 | .73 | .74 | .74 | .78 | .83 | .83 | .84 | .85 | .86 |
| JUN 15 | | .13 | .30 | .34 | .43 | .52 | .53 | .55 | .58 | .64 | .68 | .80 | .82 |
| AUG 1 | | .24 | .45 | .57 | .73 | .93 | 1.07 | 1.15 | 1.15 | 1.15 | 1.15 | 1.15 | 1.15 |
| AUG 2 | | .33 | .57 | .75 | .85 | 1.33 | 1.63 | 1.47 | 1.49 | 1.51 | 1.51 | 1.51 | 1.51 |
| AUG 17 | | .20 | .36 | .35 | .40 | .59 | .72 | .63 | .75 | 1.07 | 1.09 | 1.10 | 1.10 |
| SEP 9 | | .24 | .32 | .34 | .34 | .34 | .34 | .34 | .34 | .34 | .34 | .34 | .34 |
| SOUTHBUFF | | | | | | | | | | | | | |
| NONE | | | | | | | | | | | | | |
| VALLENTINE | | | | | | | | | | | | | |
| MAY 24 | | .30 | .55 | .60 | .63 | .63 | .63 | .63 | .63 | .63 | .63 | .63 | .63 |
| JUN 15 | | .25 | .35 | .36 | .37 | .37 | .37 | .37 | .37 | .37 | .37 | .37 | .37 |
| JUN 19 | | .28 | .34 | .36 | .38 | .38 | .38 | .38 | .38 | .38 | .38 | .43 | .43 |
| JUL 26 | | .40 | .75 | .80 | .95 | .95 | .93 | .94 | .94 | .94 | .94 | .94 | .94 |
| NEVADA | | | | | | | | | | | | | |
| BLISS | | | | | | | | | | | | | |
| AUG 27 | | T | .45 | .84 | .89 | .92 | .94 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 |

EXCESSIVE SHORT DURATION RAINFALL

YEAR 1970

| Station and date | Maximum precipitation in inches
(5 to 180 minutes) | | | | | | | | | | | | Station and date | Maximum precipitation in inches
(5 to 180 minutes) | | | | | | | | | | | | |
|------------------|---|-----|-----|------|------|------|------|------|------|------|------|------|------------------|---|-----|-----|------|------|------|------|------|------|------|------|------|------|
| | 5 | 10 | 15 | 20 | 30 | 45 | 60 | 80 | 100 | 120 | 150 | 180 | | 5 | 10 | 15 | 20 | 30 | 45 | 60 | 80 | 100 | 120 | 150 | 180 | |
| NEVADA | | | | | | | | | | | | | NORTH CAROLINA | | | | | | | | | | | | | |
| ELKO | | | | | | NONE | | | | | | | ASHEVILLE | JUN 22 | .23 | .30 | .39 | .40 | .45 | .50 | .50 | .50 | .50 | .50 | .50 | |
| LAS VEGAS | | | | | | | | | | | | | JUL 21 | .27 | .48 | .53 | .77 | .98 | 1.24 | 1.29 | 1.34 | 1.35 | 1.39 | 1.40 | 1.47 | |
| JUL 25 | .19 | .30 | .41 | .49 | .52 | .53 | .53 | .53 | .53 | .53 | .53 | .53 | JUL 25 | .18 | .35 | .47 | .60 | .89 | .94 | 1.07 | 1.01 | 1.02 | 1.02 | 1.02 | 1.02 | |
| RENO | | | | | | NONE | | | | | | | JUL 27 | .30 | .50 | .70 | .80 | .87 | .90 | .92 | .93 | .94 | .94 | .94 | .94 | |
| WINNEVOCCA | | | | | | NONE | | | | | | | CAPE HATTERAS R | JAN 6 | .11 | .22 | .25 | .31 | .48 | .59 | .84 | 1.04 | 1.29 | 1.41 | 1.67 | 1.85 |
| NEW HAMPSHIRE | | | | | | | | | | | | | FEB 3 | .48 | .75 | .81 | .88 | .98 | 1.06 | 1.11 | 1.23 | 1.33 | 1.46 | 1.52 | 1.78 | |
| CONCORD | | | | | | | | | | | | | APR 20 | .22 | .37 | .38 | .40 | .42 | .48 | .50 | .52 | .52 | .52 | .52 | .52 | |
| JUL 16 | .30 | .48 | .51 | .60 | .66 | .70 | .73 | .73 | .74 | .74 | .74 | .74 | APR 27 | .22 | .38 | .46 | .55 | .57 | .57 | .57 | .57 | .57 | .57 | .57 | .57 | |
| NEW JERSEY | | | | | | | | | | | | | APR 28 | .20 | .35 | .44 | .46 | .46 | .46 | .46 | .46 | .46 | .46 | .46 | .46 | |
| ATLANTIC CITY | | | | | | | | | | | | | MAY 17 | .23 | .45 | .48 | .48 | .49 | .50 | .51 | .54 | .56 | .58 | .62 | .62 | |
| JUN 5 | .26 | .49 | .51 | .56 | .60 | .65 | .71 | .72 | .73 | .73 | .74 | .77 | JUN 22 | .23 | .45 | .46 | .47 | .65 | .65 | .65 | .65 | .65 | .65 | .65 | .65 | |
| JUN 17 | .25 | .46 | .56 | .66 | 1.12 | 1.34 | 1.42 | 1.51 | 1.55 | 1.55 | 1.56 | 1.71 | JUL 5 | .25 | .35 | .40 | .52 | .54 | .55 | .55 | .55 | .55 | .70 | .76 | .76 | |
| JUN 21 | .28 | .52 | .60 | .71 | .76 | .78 | .82 | .84 | .84 | .84 | .90 | .92 | JUL 5 | .30 | .45 | .48 | .55 | .63 | .90 | 1.06 | 1.10 | 1.18 | 1.24 | 1.30 | 1.35 | |
| AUG 8 | .21 | .39 | .42 | .46 | .70 | .76 | .80 | .92 | .94 | .94 | .94 | .94 | JUL 27 | .30 | .40 | .50 | .52 | .64 | .70 | .70 | .70 | .70 | .70 | .70 | .70 | |
| AUG 17 | .39 | .64 | .77 | .79 | 1.17 | 1.18 | 1.18 | 1.18 | 1.18 | 1.18 | 1.18 | 1.18 | AUG 31 | .27 | .45 | .51 | .63 | .65 | .65 | .65 | .65 | .65 | .65 | .65 | .65 | |
| NOV 4 | .27 | .54 | .59 | .66 | 1.06 | 1.15 | 1.54 | 1.69 | 1.79 | 1.80 | 1.80 | 1.80 | SEP 4 | .15 | .30 | .38 | .40 | .61 | .66 | .66 | .70 | .70 | .72 | .73 | .75 | |
| NEWARK | | | | | | | | | | | | | SEP 12 | .33 | .63 | .77 | .90 | 1.28 | 1.54 | 1.68 | 1.73 | 1.75 | 1.81 | 1.90 | 1.97 | |
| JUN 18 | .25 | .35 | .38 | .44 | .48 | .50 | .53 | .54 | .55 | .59 | .63 | .63 | CHARLOTTE | APR 1 | .15 | .26 | .37 | .48 | .56 | .61 | .66 | .88 | .96 | 1.11 | 1.15 | 1.16 |
| JUN 29 | .27 | .45 | .60 | .74 | .95 | 1.02 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | JUN 5 | .46 | .66 | .66 | .66 | .66 | .49 | .50 | .82 | .82 | .82 | .82 | .82 | |
| JUL 30 | .26 | .34 | .38 | .47 | .52 | .54 | .55 | .60 | .63 | .63 | .63 | .63 | JUL 4 | .50 | .80 | .99 | 1.04 | 1.06 | 1.07 | 1.17 | 1.20 | 1.23 | 1.23 | 1.23 | 1.42 | |
| JUL 31 | .20 | .36 | .43 | .47 | .61 | .68 | .72 | .74 | .78 | .85 | .86 | .86 | JUL 5 | .25 | .49 | .68 | .78 | .88 | 1.02 | 1.18 | 1.19 | 1.23 | 1.23 | 1.23 | 1.23 | |
| AUG 17 | .49 | .71 | .76 | .77 | .77 | .77 | .77 | .77 | .77 | .77 | .77 | .77 | JUL 21 | .28 | .47 | .56 | .72 | .98 | 1.45 | 1.58 | 1.63 | 1.67 | 1.68 | 1.69 | 1.69 | |
| AUG 23 | .23 | .41 | .53 | .63 | .76 | .81 | .92 | .95 | .96 | .99 | 1.00 | 1.00 | AUG 18 | .32 | .52 | .60 | .66 | .70 | .72 | .73 | .75 | .76 | .76 | .76 | .76 | |
| SEP 27 | .29 | .49 | .51 | .55 | .58 | .59 | .64 | .70 | .70 | .70 | .70 | .70 | GREENSBORO | APR 2 | .26 | .44 | .54 | .62 | .69 | .73 | .75 | .77 | .78 | .79 | .79 | .80 |
| TRENTON U | | | | | | | | | | | | | APR 23 | .40 | .75 | .95 | 1.00 | 1.07 | 1.10 | 1.10 | 1.12 | 1.12 | 1.13 | 1.18 | 1.27 | |
| MAY 23 | .34 | .47 | .53 | .63 | .68 | .68 | .73 | 1.17 | 1.18 | 1.18 | 1.18 | 1.18 | MAY 17 | .20 | .29 | .37 | .37 | .38 | .45 | .63 | .64 | .67 | .69 | .71 | .71 | |
| JUN 3 | .16 | .27 | .34 | .40 | .49 | .52 | .52 | .53 | .53 | .53 | .54 | .54 | JUN 11 | .29 | .47 | .64 | .74 | .81 | .83 | .84 | .87 | .88 | .91 | .95 | .95 | |
| JUN 18 | .42 | .53 | .54 | .54 | .54 | .54 | .54 | .54 | .54 | .57 | .62 | .63 | JUN 23 | .27 | .48 | .63 | .70 | .84 | 1.03 | 1.15 | 1.16 | 1.16 | 1.16 | 1.16 | 1.16 | |
| AUG 23 | .24 | .36 | .44 | .58 | .79 | .90 | .95 | 1.00 | 1.10 | 1.18 | 1.27 | 1.32 | JUL 4 | .22 | .42 | .47 | .54 | .55 | .55 | .55 | .55 | .55 | .55 | .55 | .55 | |
| NEW MEXICO | | | | | | | | | | | | | JUL 10 | .18 | .27 | .32 | .46 | .58 | .58 | .59 | .60 | .60 | .60 | .68 | .70 | |
| ALBUQUERQUE | | | | | | | | | | | | | JUL 20 | .26 | .39 | .40 | .40 | .40 | .40 | .40 | .40 | .40 | .40 | .40 | .40 | |
| AUG 8 | *.53 | .81 | .91 | .95 | .98 | .98 | .98 | .98 | .98 | .98 | .98 | .98 | AUG 3 | .22 | .36 | .42 | .44 | .45 | .47 | .47 | .47 | .47 | .47 | .47 | .47 | |
| SEP 13 | .18 | .32 | .39 | .42 | .44 | .44 | .44 | .44 | .44 | .44 | .44 | .44 | AUG 6 | .33 | .45 | .69 | 1.00 | 1.37 | 1.44 | 1.58 | 1.71 | 1.77 | 1.96 | 2.15 | 2.15 | |
| CLAYTON | | | | | | | | | | | | | NOV 10 | .17 | .33 | .45 | .50 | .67 | .84 | .88 | .93 | .95 | .95 | .95 | .95 | |
| JUL 8 | .18 | .34 | .44 | .47 | .49 | .50 | .51 | .51 | .51 | .51 | .52 | .52 | RALEIGH | MAR 26 | .23 | .33 | .37 | .39 | .43 | .46 | .46 | .46 | .46 | .46 | .46 | .46 |
| ROSWELL | | | | | | | | | | | | | APR 13 | .25 | .32 | .33 | .35 | .38 | .41 | .45 | .47 | .50 | .58 | .60 | .63 | |
| JUN 29 | .40 | .62 | .74 | 1.05 | 1.24 | 1.30 | 1.34 | 1.35 | 1.36 | 1.37 | 1.37 | 1.37 | MAY 11 | .26 | .37 | .49 | .51 | .51 | .51 | .51 | .51 | .51 | .51 | .51 | .51 | |
| NEW YORK | | | | | | | | | | | | | MAY 16 | .23 | .30 | .39 | .42 | .43 | .45 | .47 | .48 | .50 | .50 | .50 | .50 | |
| ALBANY | | | | | | | | | | | | | MAY 17 | .28 | .35 | .36 | .36 | .36 | .36 | .36 | .36 | .36 | .36 | .37 | .38 | |
| JUN 3 | .24 | .38 | .43 | .44 | .44 | .44 | .46 | .47 | .47 | .47 | .47 | .47 | JUL 10 | .31 | .45 | .53 | .54 | .73 | .94 | 1.19 | 1.23 | 1.35 | 1.35 | 1.70 | 1.70 | |
| JUN 17 | .30 | .58 | .82 | .93 | .94 | .94 | .95 | .95 | .95 | .95 | .95 | .95 | JUL 10 | .21 | .30 | .35 | .37 | .38 | .39 | .40 | .40 | .42 | .45 | .45 | .45 | |
| JUN 18 | .28 | .40 | .50 | .52 | .55 | .55 | .55 | .55 | .55 | .55 | .55 | .55 | JUL 20 | .55 | .70 | .73 | .75 | .75 | .75 | 1.05 | 1.15 | 1.20 | 1.20 | 1.20 | 1.20 | |
| AUG 12 | .22 | .39 | .42 | .49 | .49 | .49 | .49 | .55 | .66 | .70 | .78 | .79 | JUL 23 | .23 | .31 | .33 | .36 | .39 | .40 | .40 | .41 | .43 | .45 | .47 | .47 | |
| BINGHAMTON | | | | | | | | | | | | | JUL 25 | .17 | .32 | .38 | .45 | .45 | .45 | .45 | .45 | .45 | .45 | .45 | .45 | |
| JUL 3 | .20 | .38 | .40 | .51 | .61 | .61 | .61 | .64 | .64 | .64 | .70 | .71 | AUG 9 | .33 | .54 | .55 | .56 | .67 | .67 | .68 | .70 | .74 | .75 | .78 | .82 | |
| JUL 4 | .30 | .56 | .65 | .67 | .70 | .72 | .73 | .74 | .74 | .74 | .74 | .74 | AUG 23 | .41 | .57 | .80 | .94 | 1.25 | 1.60 | 1.69 | 1.70 | 1.71 | 1.71 | 1.71 | 1.71 | |
| AUG 3 | .24 | .37 | .42 | .52 | .54 | .54 | .54 | .54 | .54 | .54 | .54 | .54 | OCT 15 | .32 | .63 | .67 | .74 | .92 | .94 | .95 | .95 | .95 | .96 | .99 | .99 | |
| AUG 30 | .23 | .35 | .40 | .43 | .55 | .60 | .80 | .86 | .89 | .89 | .89 | .89 | WILMINGTON | MAY 17 | .30 | .53 | .55 | .70 | .90 | .95 | .97 | 1.31 | 1.52 | 1.61 | 1.62 | 1.64 |
| BUFFALO | | | | | | | | | | | | | JUN 7 | .37 | .70 | .80 | 1.00 | 1.10 | 1.20 | 1.20 | 1.20 | 1.20 | 1.20 | 1.20 | 1.20 | |
| SEP 25 | .16 | .27 | .34 | .40 | .52 | .52 | .52 | .85 | .91 | .99 | 1.07 | 1.08 | JUN 25 | .18 | .35 | .37 | .42 | .46 | .46 | .53 | .53 | .62 | .75 | .78 | .87 | |
| NEW YORK CENT PK | | | | | | | | | | | | | JUL 11 | .32 | .61 | .62 | .73 | .75 | .79 | .87 | .87 | .87 | .87 | .87 | .87 | |
| MAY 12 | .23 | .43 | .48 | .51 | .53 | .53 | .53 | .53 | .53 | .53 | .53 | .53 | JUL 16 | .42 | .68 | .79 | .93 | 1.05 | 1.18 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | |
| MAY 26 | .30 | .47 | .50 | .50 | .52 | .53 | .57 | .60 | .60 | .63 | .90 | .93 | JUL 24</ | | | | | | | | | | | | | |

113

| Station and date | | Maximum precipitation in inches
(5 to 180 minutes) | | | | | | | | | | | |
|------------------|--|---|-----|------|------|------|------|------|------|------|------|------|------|
| | | 5 | 10 | 15 | 20 | 30 | 45 | 60 | 80 | 100 | 120 | 150 | 180 |
| OHIO | | | | | | | | | | | | | |
| CINCINNATI OBS | | | | | | | | | | | | | |
| JUN 22 | | .26 | .39 | .51 | .57 | .64 | .78 | .82 | .83 | .83 | .83 | .83 | .83 |
| SEP 13 | | .29 | .45 | .53 | .54 | .56 | .54 | .55 | .55 | .55 | .55 | .55 | .55 |
| SEP 22 | | .36 | .46 | .46 | .46 | .46 | .46 | .46 | .47 | .49 | .49 | .49 | .49 |
| CINCINNATI J | | | | | | | | | | | | | |
| JUN 26 | | .52 | .65 | .71 | .85 | 1.03 | 1.08 | 1.09 | 1.23 | 1.25 | 1.25 | 1.25 | 1.25 |
| JUL 8 | | .32 | .53 | .57 | .58 | .60 | .67 | .70 | .83 | .84 | .84 | 1.15 | 1.42 |
| AUG 19 | | .25 | .32 | .35 | .43 | .45 | .52 | .53 | .53 | .53 | .53 | .53 | .53 |
| AUG 22 | | .35 | .45 | .59 | .60 | .61 | .64 | .68 | .69 | .69 | .69 | .69 | .69 |
| SEP 25 | | .35 | .50 | .65 | .80 | .97 | 1.21 | 1.31 | 1.31 | 1.34 | 1.39 | 1.44 | 1.49 |
| CLEVELAND | | | | | | | | | | | | | |
| JUN 3 | | .28 | .36 | .37 | .38 | .44 | .45 | .46 | .47 | .47 | .47 | .68 | .88 |
| JUN 24 | | .34 | .44 | .47 | .54 | .87 | .89 | .96 | 1.00 | 1.02 | 1.16 | 1.23 | 1.24 |
| JUL 3 | | .27 | .33 | .34 | .34 | .34 | .34 | .34 | .34 | .34 | .34 | .34 | .34 |
| JUL 28 | | .34 | .62 | .78 | 1.04 | 1.04 | 1.10 | 1.10 | 1.10 | 1.10 | 1.10 | 1.10 | 1.10 |
| JUL 29 | | .40 | .68 | .72 | 1.04 | 1.20 | 1.25 | 1.26 | 1.26 | 1.26 | 1.26 | 1.26 | 1.26 |
| COLUMBUS | | | | | | | | | | | | | |
| MAY 13 | | .50 | .59 | .73 | .76 | .76 | .77 | .77 | .77 | .77 | .77 | .77 | .77 |
| MAY 14 | | .30 | .31 | .31 | .31 | .31 | .31 | .31 | .31 | .31 | .31 | .31 | .31 |
| MAY 24 | | .24 | .38 | .46 | .49 | .62 | .73 | .84 | .98 | 1.02 | 1.02 | 1.02 | 1.02 |
| JUN 5 | | .37 | .42 | .48 | .48 | .48 | .49 | .50 | .50 | .51 | .51 | .51 | .51 |
| JUN 14 | | .33 | .50 | .60 | .83 | 1.16 | 1.44 | 1.44 | 1.44 | 1.80 | 1.81 | 1.81 | 1.81 |
| JUN 26 | | .39 | .47 | .54 | .56 | .60 | .76 | .77 | .79 | .80 | .80 | .84 | .84 |
| JUL 9 | | .38 | .50 | .54 | .54 | .54 | .54 | .54 | .54 | .54 | .54 | .54 | .54 |
| JUL 16 | | .34 | .65 | .81 | .85 | .94 | .95 | .99 | 1.01 | 1.01 | 1.02 | 1.02 | 1.02 |
| AUG 18 | | .30 | .43 | .60 | .75 | .87 | .87 | .87 | .87 | .87 | .87 | .87 | .87 |
| AUG 20 | | .27 | .48 | .60 | .72 | .75 | .75 | .75 | .75 | .79 | .79 | .79 | .79 |
| SEP 3 | | .29 | .43 | .50 | .53 | .54 | .55 | .65 | .74 | .77 | .77 | .77 | .85 |
| SEP 8 | | .23 | .37 | .56 | .67 | 1.01 | 1.25 | 1.40 | 1.49 | 1.69 | 1.49 | 1.49 | 1.49 |
| DAYTON | | | | | | | | | | | | | |
| MAY 16 | | .30 | .33 | .34 | .35 | .38 | .40 | .40 | .41 | .41 | .55 | .55 | .55 |
| JUN 2 | | .24 | .40 | .42 | .45 | .55 | .55 | .57 | .57 | .58 | .58 | .58 | .61 |
| JUN 26 | | .35 | .38 | .38 | .40 | .41 | .42 | .42 | .42 | .42 | .42 | .42 | .42 |
| JUL 10 | | .25 | .44 | .47 | .50 | .51 | .51 | .53 | .54 | .55 | .55 | .55 | .55 |
| MANSFIELD | | | | | | | | | | | | | |
| MAY 13 | | .26 | .33 | .33 | .33 | .33 | .33 | .33 | .33 | .38 | .42 | .48 | .48 |
| MAY 23 | | .20 | .35 | .50 | .60 | .70 | .80 | .91 | 1.13 | 1.25 | 1.33 | 1.33 | 1.33 |
| MAY 24 | | .30 | .48 | .52 | .65 | .65 | .65 | .65 | .65 | .66 | .66 | .66 | .67 |
| JUN 26 | | .32 | .37 | .37 | .37 | .37 | .37 | .37 | .37 | .37 | .37 | .37 | .37 |
| JUL 8 | | .30 | .40 | .53 | .53 | .57 | .61 | .67 | .74 | .76 | .77 | .77 | .77 |
| JUL 9 | | .30 | .45 | .55 | .73 | .96 | 1.31 | 1.10 | 1.29 | 1.29 | 1.29 | 1.29 | 1.29 |
| JUL 12 | | .30 | .39 | .45 | .49 | .50 | .50 | .50 | .50 | .50 | .50 | .50 | .50 |
| SEP 23 | | .17 | .31 | .31 | .31 | .31 | .31 | .31 | .31 | .31 | .31 | .31 | .31 |
| SEP 26 | | .25 | .45 | .68 | .88 | 1.03 | 1.09 | 1.12 | 1.13 | 1.14 | 1.15 | 1.17 | 1.17 |
| TOLEDO | | | | | | | | | | | | | |
| MAY 12 | | .27 | .48 | .54 | .72 | .84 | .90 | .92 | .95 | .95 | 1.25 | 1.49 | 1.51 |
| JUN 17 | | .16 | .30 | .35 | .37 | .66 | .67 | .68 | .68 | .68 | .68 | .68 | .68 |
| JUL 2 | | .22 | .40 | .50 | .62 | .76 | .79 | .79 | .79 | .79 | .79 | .79 | .79 |
| JUL 8 | | .19 | .32 | .34 | .37 | .37 | .37 | .37 | .37 | .37 | .37 | .37 | .37 |
| JUL 10 | | .19 | .34 | .36 | .40 | .55 | .57 | .57 | .62 | .62 | .62 | .70 | .76 |
| JUL 19 | | .27 | .41 | .50 | .56 | .58 | .60 | .63 | .64 | .65 | .75 | .78 | .79 |
| JUL 29 | | .23 | .35 | .39 | .41 | .53 | .54 | .54 | .54 | .54 | .54 | .54 | .54 |
| AUG 18 | | .28 | .53 | .60 | .73 | 1.04 | 1.08 | 1.09 | 1.09 | 1.09 | 1.10 | 1.10 | 1.16 |
| SEP 14 | | .16 | .25 | .30 | .40 | .54 | .62 | .65 | .66 | .66 | .66 | .67 | .69 |
| SEP 18 | | .20 | .40 | .50 | .60 | .75 | .80 | .84 | .85 | .86 | .86 | .87 | .88 |
| YOUNGSTOWN | | | | | | | | | | | | | |
| MAY 13 | | .25 | .29 | .35 | .36 | .37 | .37 | .37 | .37 | .37 | .37 | .37 | .37 |
| MAY 23 | | .43 | .43 | .43 | .43 | .43 | .43 | .43 | .43 | .43 | .47 | .47 | .49 |
| MAY 29 | | .14 | .26 | .37 | .47 | .59 | .64 | .72 | .80 | .82 | .82 | .84 | .86 |
| JUN 26 | | .35 | .61 | .64 | .65 | .66 | .68 | .72 | .74 | .78 | .88 | .98 | .98 |
| JUL 8 | | .30 | .48 | .56 | .60 | .62 | .64 | .67 | .69 | .71 | .72 | .77 | .80 |
| JUL 29 | | .25 | .39 | .57 | .73 | .85 | .86 | .89 | .90 | .90 | .90 | .90 | .90 |
| AUG 20 | | .32 | .34 | .34 | .34 | .34 | .34 | .34 | .35 | .38 | .38 | .38 | .38 |
| OKLAHOMA | | | | | | | | | | | | | |
| OKLAHOMA CITY | | | | | | | | | | | | | |
| APR 16 | | .15 | .30 | .37 | .48 | .57 | .60 | .61 | .64 | .65 | .66 | .67 | .69 |
| APR 30 | | .30 | .60 | .80 | 1.05 | 1.28 | 1.33 | 1.58 | 1.60 | 1.63 | 1.64 | 1.98 | 2.17 |
| MAY 29 | | .45 | .61 | .75 | .90 | 1.25 | 1.41 | 2.10 | 2.65 | 2.97 | 3.28 | 4.10 | 4.28 |
| MAY 29 | | .19 | .30 | .32 | .41 | .55 | .69 | .74 | .77 | .81 | .86 | .97 | 1.00 |
| JUN 11 | | .40 | .69 | .75 | .75 | .75 | .80 | .82 | .82 | .82 | .82 | .82 | .82 |
| SEP 22 | | .26 | .43 | .53 | .70 | 1.00 | 1.40 | 1.56 | 1.62 | 1.91 | 2.52 | 2.92 | 2.94 |
| SEP 22 | | .40 | .68 | 1.00 | 1.08 | 1.27 | 1.38 | 1.41 | 1.43 | 1.44 | 1.45 | 1.45 | 1.53 |
| OCT 5 | | .53 | .70 | .78 | .80 | .93 | 1.02 | 1.33 | 1.48 | 1.57 | 1.65 | 1.72 | 1.72 |
| TULSA | | | | | | | | | | | | | |
| APR 18 | | .40 | .74 | .80 | .95 | 1.10 | 1.24 | 1.24 | 1.24 | 1.24 | 1.24 | 1.25 | 1.25 |
| APR 30 | | .25 | .45 | .49 | .50 | .58 | .62 | .67 | .70 | .71 | 1.25 | 1.53 | 1.67 |
| MAY 24 | | .43 | .65 | .72 | .87 | 1.07 | 1.11 | 1.32 | 1.59 | 1.70 | 1.85 | 1.88 | 1.90 |
| MAY 28 | | .33 | .65 | .75 | .90 | 1.04 | 1.17 | 1.21 | 1.22 | 1.25 | 1.28 | 1.34 | 1.34 |
| JUN 11 | | M | M | M | M | M | M | 1.00 | M | M | M | M | 1.02 |
| AUG 17 | | .20 | .33 | .42 | .43 | .44 | .45 | .50 | .54 | .55 | .56 | .58 | .58 |
| AUG 17 | | .20 | .33 | .42 | .47 | .66 | .70 | .74 | .76 | .76 | .76 | .76 | .76 |
| SEP 3 | | .16 | .24 | .26 | .29 | .50 | .54 | .54 | .54 | .54 | .54 | .54 | .54 |
| SEP 16 | | .25 | .33 | .35 | .39 | .40 | .40 | .40 | .40 | .40 | .40 | .40 | .40 |
| SEP 22 | | .27 | .35 | .38 | .45 | .58 | .67 | .70 | .77 | .84 | .84 | .92 | 1.00 |
| SEP 22 | | .46 | .66 | .68 | .79 | .92 | 1.10 | 1.39 | 1.40 | 1.41 | 1.43 | 1.52 | 1.64 |
| OCT 8 | | .29 | .40 | .40 | .50 | .60 | .65 | .73 | .85 | .95 | 1.32 | 1.08 | 1.10 |
| OREGON | | | | | | | | | | | | | |
| ASTORIA | | | | | | | | | | | | | |
| NONE | | | | | | | | | | | | | |
| BURNS J | | | | | | | | | | | | | |
| NONE | | | | | | | | | | | | | |
| EUGENE | | | | | | | | | | | | | |
| NONE | | | | | | | | | | | | | |
| MEACHAM | | | | | | | | | | | | | |
| JUN 8 | | M | .61 | .63 | .63 | .65 | .66 | .66 | M | M | M | M | M |

| | | Maximum precipitation in inches
(5 to 180 minutes) | | | | | | | | | | | |
|------------------|--|---|-----|------|------|------|------|------|------|------|------|------|------|
| Station and date | | 5 | 10 | 15 | 20 | 30 | 45 | 60 | 80 | 100 | 120 | 150 | 180 |
| PACIFIC OCEAN | | | | | | | | | | | | | |
| PEARL HARBOR | | | | | | | | | | | | | |
| PLATONIA ISLAND | | | | | | | | | | | | | |
| SAFETY | | | | | | | | | | | | | |
| SEXTON SUMMIT R. | | | | | | | | | | | | | |
| PACIFIC AREA | | | | | | | | | | | | | |
| GAM | | | | | | | | | | | | | |
| JAN 19 | | .35 | .47 | .53 | .53 | .57 | .63 | .65 | .67 | .72 | .74 | .79 | .77 |
| JAN 21 | | .30 | .44 | .50 | .50 | .55 | .62 | .67 | 1.03 | 1.10 | 1.16 | 1.44 | 1.55 |
| JAN 24 | | .20 | .35 | .40 | .52 | .60 | .87 | .97 | 1.14 | 1.15 | 1.20 | 1.57 | 1.69 |
| JAN 25 | | .34 | .52 | .57 | .59 | .60 | .62 | .63 | .64 | .74 | .82 | 1.17 | 1.32 |
| MAY 18 | | .31 | .46 | .49 | .53 | .63 | .68 | .68 | .71 | .71 | .71 | .71 | .71 |
| JUN 10 | | .22 | .35 | .45 | .56 | .60 | .63 | .69 | .69 | .70 | .73 | .96 | .97 |
| JUL 15 | | .29 | .53 | .70 | .87 | 1.10 | 1.20 | 1.34 | 1.45 | 1.35 | 1.33 | 1.34 | 1.35 |
| JUL 19 | | .32 | .52 | .67 | .76 | .81 | .95 | .97 | .97 | .97 | .97 | 1.28 | 1.31 |
| AUG 22 | | .21 | .39 | .57 | .76 | .86 | .70 | .83 | .95 | 1.08 | 1.13 | 1.13 | 1.13 |
| JUL 30 | | .32 | .59 | .80 | .85 | .92 | .93 | .93 | .93 | .93 | .93 | .93 | .97 |
| AUG 19 | | .29 | .46 | .62 | .77 | 1.00 | 1.47 | 1.87 | 2.03 | 2.11 | 2.18 | 2.23 | .76 |
| AUG 20 | | .26 | .41 | .46 | .64 | .73 | .77 | .81 | .83 | .84 | .84 | .84 | .86 |
| AUG 21 | | .25 | .38 | .43 | .50 | .55 | .63 | .72 | .78 | .80 | .80 | .80 | .80 |
| AUG 26 | | .19 | .29 | .37 | .42 | .64 | .82 | .85 | .85 | .85 | .86 | 1.04 | 1.04 |
| AUG 29 | | .24 | .35 | .38 | .42 | .60 | .60 | .60 | .60 | .60 | .60 | .60 | .60 |
| SEP 7 | | .31 | .49 | .62 | .67 | .77 | .91 | 1.17 | 1.40 | 1.49 | 1.52 | 1.54 | 1.56 |
| SEP 11 | | .27 | .47 | .52 | .55 | .57 | .54 | .70 | .70 | .70 | .70 | .70 | .70 |
| SEP 15 | | .30 | .38 | .39 | .39 | .41 | .41 | .41 | .41 | .41 | .41 | .41 | .47 |
| SEP 16 | | .15 | .24 | .30 | .33 | .37 | .80 | .94 | 1.00 | 1.07 | 1.05 | 1.10 | 1.11 |
| SEP 29 | | .27 | .43 | .53 | .56 | .58 | .58 | .59 | .59 | .59 | .59 | .59 | .59 |
| SEP 29 | | .21 | .30 | .38 | .38 | .38 | .38 | .38 | .38 | .38 | .38 | .38 | .38 |
| OCT 1 | | .27 | .42 | .45 | .60 | .60 | .60 | .60 | .60 | .60 | .60 | .60 | .60 |
| OCT 3 | | .20 | .35 | .40 | .41 | .41 | .41 | .41 | .44 | .44 | .44 | .44 | .65 |
| OCT 11 | | .32 | .52 | .68 | .78 | .94 | .94 | .98 | .98 | .98 | .98 | .98 | .98 |
| OCT 19 | | .32 | .52 | .68 | .78 | .94 | .94 | .98 | .98 | .98 | .98 | .98 | .98 |
| NOV 24 | | .20 | .30 | .41 | .52 | .56 | .70 | .70 | .70 | .70 | .70 | .70 | .70 |
| NOV 26 | | .27 | .44 | .54 | .67 | .77 | .89 | .92 | .94 | 1.01 | 1.27 | 1.28 | 1.29 |
| DEC 13 | | .25 | .31 | .32 | .32 | .32 | .39 | .39 | .40 | .42 | .53 | .55 | .56 |
| JOHNSTON ISLAND | | | | | | | | | | | | | |
| OCT 16 | | .25 | .38 | .50 | .58 | .59 | .59 | .59 | .64 | .75 | .76 | .75 | .76 |
| NOV 21 | | .27 | .39 | .47 | .57 | .57 | .57 | .57 | .57 | .57 | .57 | .57 | .57 |
| NOV 25 | | .20 | .31 | .43 | .49 | .52 | .53 | .53 | .53 | .53 | .50 | .57 | .58 |
| DEC 5 | | .44 | .58 | .61 | .61 | .63 | .64 | .64 | .64 | .64 | .64 | .67 | .67 |
| DEC 24 | | .25 | .37 | .41 | .53 | .57 | .51 | .53 | .55 | .58 | .67 | .71 | .73 |
| DEC 25 | | .33 | .53 | .60 | .76 | .79 | .97 | 1.08 | 1.09 | 1.20 | .23 | 1.34 | 1.38 |
| KOROR | | | | | | | | | | | | | |
| JAN 3 | | .35 | .64 | .80 | .84 | .88 | .90 | .94 | .99 | 1.00 | 1.08 | 1.16 | 1.19 |
| JAN 23 | | .37 | .64 | .86 | .87 | .97 | .97 | .97 | .97 | .97 | .97 | .97 | .97 |
| FEB 15 | | .29 | .60 | .66 | .73 | .76 | .78 | .80 | 1.05 | 1.19 | 1.18 | 1.21 | 1.21 |
| FEB 17 | | .22 | .40 | .61 | .78 | 1.02 | 1.17 | 1.35 | 1.37 | .71 | 1.42 | 1.42 | 1.42 |
| MAR 16 | | .32 | .34 | .34 | .34 | .34 | .34 | .34 | .34 | .34 | .34 | .34 | .34 |
| MAR 19 | | .19 | .34 | .43 | .58 | .64 | .86 | .86 | .97 | .99 | 1.05 | 1.17 | 1.17 |
| APR 28 | | .22 | .36 | .54 | .58 | .61 | .62 | .63 | .63 | .65 | .67 | .67 | .69 |
| MAY 9 | | .17 | .26 | .36 | .42 | .46 | .53 | .56 | .56 | .57 | .63 | .74 | .77 |
| MAY 10 | | .24 | .41 | .48 | .48 | .48 | .48 | .48 | .48 | .48 | .48 | .48 | .48 |
| MAY 17 | | .17 | .27 | .30 | .34 | .32 | .68 | .73 | .68 | .68 | .68 | .68 | .68 |
| MAY 20 | | .22 | .35 | .63 | .68 | .74 | .74 | .74 | .74 | .74 | .74 | .74 | .74 |
| JUN 6 | | .27 | .41 | .56 | .63 | .80 | .89 | .92 | .94 | .93 | 1.03 | 1.14 | 1.19 |
| JUN 13 | | .18 | .33 | .36 | .36 | .47 | .53 | .53 | .53 | .53 | .53 | .63 | .69 |
| JUN 15 | | .33 | .37 | .39 | .41 | .44 | .45 | .46 | .46 | .46 | .47 | .74 | .74 |
| JUN 19 | | .23 | .37 | .40 | .40 | .44 | .43 | .43 | .43 | .43 | .43 | .43 | .43 |
| JUN 19 | | .18 | .33 | .41 | .42 | .45 | .46 | .46 | .46 | .46 | .46 | .62 | .62 |
| JUN 28 | | .23 | .34 | .40 | .42 | .43 | .46 | .47 | .47 | .47 | .48 | .48 | .49 |
| JUL 10 | | .37 | .56 | .65 | .67 | .77 | 1.08 | 1.18 | 1.18 | 1.32 | 1.58 | 1.64 | 1.69 |
| JUL 12 | | .33 | .51 | .63 | .68 | .74 | .87 | 1.24 | 1.38 | 1.50 | .53 | 1.57 | 2.35 |
| JUL 12 | | .24 | .42 | .48 | .59 | .75 | .87 | .94 | 1.05 | 1.13 | 1.17 | .28 | .39 |
| JUL 28 | | .28 | .53 | .72 | .83 | .93 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.47 | 1.53 |
| AUG 3 | | .39 | .74 | .89 | 1.15 | .93 | 1.64 | 1.79 | 1.79 | 1.79 | 1.79 | 1.79 | 1.79 |
| AUG 12 | | .37 | .63 | .74 | .88 | .97 | 1.18 | 1.42 | 1.25 | 1.25 | 1.29 | 1.31 | 1.60 |
| AUG 14 | | .46 | .79 | 1.09 | 1.37 | 1.83 | 2.51 | 2.85 | 3.34 | 3.85 | .05 | .44 | .93 |
| AUG 21 | | .25 | .40 | .49 | .60 | .75 | .94 | .98 | 1.18 | 1.34 | 1.42 | 1.60 | 1.71 |
| AUG 22 | | .19 | .34 | .48 | .60 | .78 | .92 | 1.01 | 1.11 | 1.14 | 1.16 | 1.18 | 1.22 |
| SEP 6 | | .31 | .54 | .65 | .68 | .68 | .68 | .71 | .71 | .71 | .71 | .72 | .72 |
| SEP 14 | | .25 | .47 | .60 | .63 | .73 | .77 | .77 | .77 | .77 | .77 | .97 | .97 |
| OCT 3 | | .20 | .29 | .36 | .40 | .45 | .49 | .49 | .49 | .52 | .53 | .53 | .88 |
| OCT 4 | | .50 | .66 | .74 | .73 | .92 | .95 | .95 | .96 | 1.13 | 1.17 | 1.17 | 1.17 |
| OCT 11 | | .27 | .43 | .60 | .62 | .62 | .62 | .69 | .69 | .69 | .73 | .73 | .80 |
| OCT 16 | | .23 | .31 | .33 | .34 | .34 | .36 | .37 | .38 | .38 | .38 | .38 | .40 |
| OCT 24 | | .33 | .56 | .74 | .79 | .79 | .79 | .79 | .79 | .79 | .80 | .80 | .80 |
| OCT 28 | | .35 | .63 | .71 | .82 | .99 | 1.26 | 1.35 | 1.35 | 1.35 | 1.35 | 1.35 | 1.35 |
| NOV 13 | | .27 | .39 | .42 | .43 | .43 | .43 | .43 | .43 | .43 | .43 | .43 | .43 |
| NOV 12 | | .22 | .42 | .48 | .50 | .68 | .73 | .71 | .70 | .70 | .70 | .76 | .76 |
| NOV 18 | | .17 | .26 | .42 | .48 | .49 | .49 | .49 | .49 | .49 | .49 | .49 | .49 |
| NOV 22 | | .30 | .32 | .32 | .32 | .34 | .36 | .38 | .38 | .41 | .44 | .44 | .44 |
| DEC 1 | | .31 | .50 | .67 | .99 | 1.00 | 1.18 | 1.68 | 1.68 | 1.68 | 1.68 | 1.68 | 1.68 |
| DEC 7 | | .21 | .31 | .31 | .32 | .31 | .31 | .31 | .31 | .39 | .39 | .39 | .39 |
| DEC 8 | | .69 | .60 | .43 | .44 | .60 | .67 | .67 | .67 | .67 | .67 | .67 | .68 |
| DEC 11 | | .33 | .49 | .51 | .51 | .51 | .56 | .66 | .66 | .66 | .66 | .66 | .68 |
| DEC 16 | | .23 | .33 | .33 | .33 | .33 | .33 | .33 | .33 | .33 | .33 | .33 | .33 |
| DEC 16 | | .20 | .29 | .34 | .36 | .61 | .65 | .65 | .65 | .65 | .65 | .65 | .65 |
| DEC 23 | | .33 | .63 | .79 | .79 | .79 | .79 | .79 | .79 | .79 | .80 | .80 | .82 |
| DEC 26 | | .21 | .33 | .45 | .54 | .68 | .61 | .61 | .61 | .61 | 1.23 | 1.23 | 1.28 |
| DEC 28 | | .21 | .34 | .35 | .35 | .35 | .37 | .40 | .40 | .40 | .42 | .41 | .72 |
| MAGBORG | | | | | | | | | | | | | |
| JAN 3 | | .18 | .25 | .34 | .41 | .55 | .60 | .60 | .62 | .73 | .70 | .71 | .71 |
| JAN 5 | | .27 | .37 | .47 | .53 | .52 | .53 | .53 | .54 | .67 | .63 | .64 | .68 |
| MAY 16 | | .27 | .51 | .71 | .95 | 1.25 | .97 | 1.39 | 1.40 | .71 | .71 | 1.04 | 1.06 |
| JUN 4 | | .47 | .63 | .39 | .42 | .51 | .51 | .51 | .53 | .53 | .53 | .54 | .54 |
| JUN 15 | | .47 | .42 | .42 | .42 | .43 | .43 | .43 | .43 | .43 | .43 | .43 | .43 |
| JUN 22 | | .23 | .35 | .44 | .49 | .61 | .67 | .59 | .71 | .74 | .74 | .74 | .74 |
| JUN 24 | | .21 | .30 | .36 | .42 | .53 | .53 | .53 | .56 | .53 | .77 | .84 | .84 |
| JUL 18 | | .23 | .37 | .40 | .43 | .46 | .46 | .46 | .46 | .46 | .46 | .46 | .46 |
| JUL 22 | | .23 | .39 | .44 | .44 | .44 | .44 | .44 | .44 | .44 | .44 | .44 | .44 |
| JUL 23 | | .23 | .39 | .44 | .44 | .44 | .44 | .44 | .44 | .44 | .44 | .44 | .44 |
| JUL 23 | | .23 | .39 | .44 | .44 | .44 | .44 | .44 | .44 | .44 | .44 | .44 | .44 |
| JUL 23 | | .23 | .39 | .44 | .44 | .44 | .44 | .44 | .44 | .44 | .44 | .44 | .44 |
| AUG 13 | | .27 | .42 | .51 | .61 | .62 | .63 | .68 | 1.15 | 1.07 | 1.03 | .63 | .63 |
| AUG 23 | | .29 | .43 | .53 | .63 | .67 | .71 | .77 | .67 | .57 | .73 | .63 | .63 |
| SEP 8 | | .21 | .34 | .34 | .38 | .41 | .41 | .41 | .41 | .41 | .41 | .41 | .41 |
| SEP 11 | | .21 | .33 | .33 | .33 | .33 | .33 | .33 | .33 | .33 | .33 | .33 | .33 |

EXCESSIVE SHORT DURATION RAINFALL

YEAR 1970

| Station and date | | Maximum precipitation in inches
(5 to 180 minutes) | | | | | | | | | | | |
|------------------|--|---|-----|------|------|------|------|------|------|------|------|------|-------|
| | | 5 | 10 | 15 | 20 | 30 | 45 | 60 | 80 | 100 | 120 | 150 | 180 |
| PACIFIC AREA | | | | | | | | | | | | | |
| HAJURO | | | | | | | | | | | | | |
| SEP 15 | | .25 | .37 | .49 | .54 | .61 | .65 | .69 | .76 | .77 | .77 | .77 | .77 |
| SEP 25 | | .23 | .33 | .38 | .42 | .50 | .64 | .71 | .77 | .80 | 1.10 | 1.22 | 1.27 |
| OCT 6 | | .20 | .32 | .41 | .41 | .41 | .41 | .41 | .41 | .42 | .42 | .42 | .42 |
| OCT 7 | | .25 | .33 | .33 | .33 | .33 | .33 | .33 | .33 | .33 | .34 | .34 | .34 |
| OCT 13 | | .19 | .28 | .35 | .40 | .42 | .44 | .50 | .54 | .62 | .62 | .66 | .66 |
| OCT 29 | | .22 | .40 | .42 | .42 | .44 | .60 | .61 | .61 | .62 | .63 | .88 | |
| OCT 29 | | .16 | .28 | .35 | .40 | .55 | .73 | .76 | .78 | .78 | .79 | .97 | 1.01 |
| NOV 16 | | .25 | .42 | .54 | .62 | .77 | .86 | .98 | 1.11 | 1.16 | 1.17 | 1.17 | 1.17 |
| NOV 16 | | .23 | .37 | .47 | .54 | .63 | .72 | .80 | .86 | .86 | .86 | .86 | .86 |
| NOV 24 | | .18 | .28 | .47 | .52 | .53 | .57 | .57 | .58 | .58 | .58 | .94 | |
| NOV 25 | | .25 | .36 | .39 | .39 | .49 | .57 | .59 | .60 | .61 | .61 | .61 | .61 |
| DEC 5 | | .15 | .29 | .38 | .47 | .55 | .63 | .63 | .68 | .90 | .96 | .97 | 1.01 |
| DEC 5 | | .21 | .37 | .44 | .50 | .60 | .63 | .73 | .77 | .80 | .82 | .83 | .83 |
| DEC 17 | | .18 | .30 | .33 | .34 | .34 | .34 | .34 | .34 | .36 | .36 | .36 | .36 |
| PAGO PAGO, A.S. | | | | | | | | | | | | | |
| JAN 2 | | .22 | .31 | .33 | .36 | .40 | .40 | .40 | .40 | .40 | .40 | .40 | .40 |
| JAN 30 | | .27 | .47 | .61 | .73 | .77 | .77 | .78 | .96 | .96 | .96 | .96 | 1.01 |
| FEB 5 | | .30 | .52 | .61 | .73 | .78 | .82 | .82 | 1.14 | 1.36 | 1.38 | 1.40 | 1.63 |
| FEB 8 | | .23 | .33 | .35 | .38 | .38 | .38 | .38 | .38 | .38 | .38 | .38 | .38 |
| FEB 14 | | .19 | .29 | .38 | .45 | .50 | .71 | .77 | .77 | 1.06 | 1.27 | 1.43 | 1.70 |
| MAR 8 | | .17 | .29 | .41 | .54 | .61 | .99 | 1.05 | 1.07 | 1.19 | 1.21 | 1.22 | 1.23 |
| MAR 9 | | .49 | .93 | 1.25 | 1.66 | 1.93 | 2.24 | 2.29 | 2.31 | 2.31 | 2.37 | 2.38 | 2.44 |
| MAR 12 | | .25 | .49 | .70 | .91 | 1.19 | 1.60 | 1.72 | 1.90 | 1.95 | 2.04 | 2.36 | 2.47 |
| MAR 22 | | .29 | .49 | .72 | .78 | .86 | .87 | .87 | .87 | .87 | .87 | .87 | .87 |
| MAR 22 | | .36 | .51 | .55 | .70 | .94 | 1.02 | 1.12 | 1.34 | 1.38 | 1.44 | 1.48 | 1.55 |
| APR 6 | | .17 | .24 | .32 | .39 | .56 | .70 | .74 | .84 | .87 | .89 | .90 | .90 |
| APR 8 | | .18 | .28 | .42 | .56 | .73 | .86 | .93 | 1.27 | 1.37 | 1.43 | 1.65 | 1.65 |
| APR 13 | | .34 | .49 | .52 | .52 | .60 | .79 | .88 | .96 | .99 | 1.09 | 1.46 | 1.56 |
| APR 14 | | .25 | .41 | .50 | .57 | .64 | .65 | .65 | .65 | .65 | .65 | .65 | .65 |
| APR 15 | | .30 | .59 | .74 | .81 | 1.01 | 1.31 | 1.65 | 1.73 | 2.17 | 2.23 | 2.25 | 2.26 |
| MAY 13 | | .32 | .50 | .73 | .82 | .92 | .95 | .95 | .95 | .95 | .95 | .95 | .95 |
| MAY 19 | | .25 | .40 | .54 | .60 | .75 | .90 | .92 | .95 | .98 | .98 | 1.01 | 1.04 |
| MAY 20 | | .18 | .35 | .49 | .64 | .85 | 1.19 | 1.39 | 1.68 | 1.71 | 1.87 | 1.88 | 1.91 |
| JUN 10 | | .39 | .54 | .61 | .83 | 1.08 | 1.44 | 1.79 | 1.93 | 1.99 | 2.01 | 2.05 | 2.30 |
| JUN 11 | | .26 | .44 | .59 | .67 | .78 | .88 | .91 | .94 | .94 | .95 | .95 | 1.01 |
| JUN 21 | | .21 | .39 | .56 | .73 | .93 | 1.31 | 1.39 | 1.47 | 1.58 | 1.70 | 1.85 | 1.99 |
| AUG 30 | | .30 | .60 | .90 | 1.05 | 1.19 | 1.43 | 1.63 | 2.08 | 2.58 | 3.00 | 3.53 | 3.59 |
| SEP 9 | | .22 | .34 | .45 | .48 | .50 | .54 | .59 | .60 | .62 | .63 | .68 | .70 |
| SEP 22 | | .52 | .78 | 1.03 | 1.58 | 2.02 | 2.27 | 2.36 | 2.43 | 2.56 | 2.65 | | |
| OCT 31 | | .24 | .42 | .54 | .63 | .70 | .71 | .71 | .71 | .71 | .71 | .71 | .71 |
| NOV 6 | | .20 | .34 | .40 | .43 | .51 | .71 | .92 | 1.05 | 1.05 | 1.05 | 1.07 | 1.43 |
| NOV 10 | | .25 | .39 | .45 | .53 | .71 | .74 | .75 | 1.11 | 1.20 | 1.20 | 1.21 | 1.21 |
| NOV 17 | | .28 | .47 | .62 | .73 | .96 | 1.39 | 1.47 | 1.50 | 1.72 | 1.74 | 1.74 | 1.74 |
| NOV 29 | | .26 | .42 | .48 | .54 | .71 | .77 | .78 | .82 | .84 | .85 | .89 | .90 |
| DEC 3 | | .27 | .44 | .48 | .49 | .54 | .57 | .59 | .60 | .60 | .60 | .62 | .62 |
| DEC 5 | | .33 | .61 | .81 | .95 | 1.10 | 1.32 | 1.68 | 2.15 | 2.31 | 2.34 | 2.66 | 2.99 |
| DEC 6 | | .26 | .43 | .57 | .78 | 1.08 | 1.42 | 1.78 | 2.25 | 2.45 | 2.61 | 2.95 | 3.12 |
| DEC 24 | | .15 | .24 | .34 | .41 | .51 | .63 | .74 | 1.00 | 1.09 | 1.15 | 1.26 | 1.30 |
| PONAPE | | | | | | | | | | | | | |
| JAN 7 | | .23 | .31 | .32 | .35 | .39 | .42 | .44 | .46 | .51 | .51 | .51 | .51 |
| JAN 16 | | .47 | .82 | 1.09 | 1.21 | 1.45 | 1.69 | 1.73 | 1.80 | 1.84 | 1.85 | 1.85 | 1.85 |
| JAN 26 | | .24 | .31 | .34 | .46 | .49 | .49 | .50 | .64 | .65 | .66 | .69 | .84 |
| FEB 17 | | .38 | .55 | .70 | .77 | .84 | 1.07 | 1.59 | 1.75 | 1.84 | 2.13 | 2.71 | 2.86 |
| MAR 9 | | .22 | .33 | .33 | .33 | .33 | .33 | .35 | .36 | .36 | .39 | .41 | .43 |
| MAR 10 | | .20 | .26 | .29 | .35 | .33 | .63 | .71 | .74 | .74 | .75 | .84 | .85 |
| MAR 10 | | .27 | .28 | .30 | .31 | .33 | .39 | .39 | .40 | .47 | .47 | .74 | .75 |
| MAR 10 | | .39 | .56 | .61 | .61 | .63 | .85 | 1.10 | 1.11 | 1.12 | 1.13 | 1.13 | 1.36 |
| APR 6 | | .17 | .27 | .34 | .43 | .59 | .67 | .73 | .80 | .86 | .93 | 1.08 | 1.11 |
| APR 7 | | .24 | .42 | .57 | .76 | .95 | 1.09 | 1.10 | 1.10 | 1.10 | 1.10 | 1.10 | 1.11 |
| APR 8 | | .35 | .53 | .64 | .73 | .85 | .93 | .97 | 1.02 | 1.06 | 1.14 | 1.29 | 1.41 |
| APR 11 | | .26 | .40 | .41 | .41 | .47 | .50 | .50 | .50 | .50 | .50 | .50 | .50 |
| APR 11 | | .16 | .27 | .39 | .46 | .52 | .52 | .52 | .52 | .52 | .54 | .54 | .54 |
| APR 25 | | .19 | .25 | .37 | .40 | .40 | .40 | .40 | .40 | .40 | .40 | .40 | .40 |
| APR 26 | | .26 | .43 | .52 | .57 | .64 | .70 | .74 | .78 | .80 | .98 | 1.07 | 1.10 |
| MAY 5 | | .23 | .41 | .52 | .57 | .62 | .67 | .68 | .69 | .69 | .70 | .70 | .70 |
| MAY 9 | | .22 | .32 | .42 | .56 | .64 | .65 | .65 | .67 | .70 | .70 | .79 | .85 |
| MAY 15 | | .38 | .59 | .71 | .72 | .74 | .76 | .77 | .80 | .84 | .88 | .88 | .91 |
| MAY 28 | | .23 | .45 | .61 | .71 | .87 | .94 | .95 | .98 | 1.02 | 1.09 | 1.26 | 1.32 |
| JUN 8 | | .23 | .35 | .50 | .58 | .63 | .63 | .63 | .63 | .63 | .63 | .63 | .63 |
| JUN 11 | | .44 | .55 | .67 | .73 | 1.00 | 1.21 | 1.23 | 1.25 | 1.27 | 1.27 | 1.27 | 1.27 |
| JUN 17 | | .44 | .55 | .67 | .78 | 1.07 | 1.28 | 1.38 | 1.42 | 1.47 | 1.47 | 1.49 | 1.50 |
| JUN 27 | | .21 | .31 | .39 | .51 | .63 | .97 | 1.08 | 1.22 | 1.24 | 1.43 | 1.60 | 1.62 |
| JUL 7 | | .27 | .45 | .53 | .58 | .60 | .60 | .60 | .68 | .88 | .88 | 1.07 | 1.11 |
| JUL 11 | | .20 | .32 | .43 | .47 | .59 | .61 | .61 | .61 | .61 | .61 | .61 | .61 |
| JUL 12 | | .27 | .42 | .43 | .43 | .44 | .44 | .44 | .44 | .44 | .44 | .44 | .44 |
| JUL 16 | | .45 | .83 | 1.23 | 1.37 | 1.63 | 2.13 | 2.36 | 2.63 | 2.65 | 2.67 | 2.67 | 2.67 |
| AUG 9 | | .28 | .52 | .68 | .72 | .75 | .79 | .85 | .86 | .86 | .86 | .86 | .86 |
| AUG 9 | | .38 | .59 | .66 | .66 | .66 | .66 | .66 | .66 | .66 | .66 | .66 | .66 |
| AUG 13 | | .14 | .24 | .29 | .36 | .50 | .57 | .61 | .62 | .63 | .65 | .65 | .65 |
| AUG 13 | | .23 | .35 | .38 | .38 | .38 | .38 | .38 | .38 | .38 | .38 | .38 | .38 |
| AUG 20 | | .23 | .31 | .32 | .32 | .32 | .32 | .32 | .32 | .32 | .32 | .32 | .32 |
| AUG 21 | | .23 | .37 | .45 | .53 | .63 | .72 | .76 | .82 | .87 | .91 | .94 | .95 |
| AUG 23 | | .29 | .35 | .42 | .58 | .76 | .79 | .84 | .84 | .86 | 1.02 | 1.11 | 1.15 |
| AUG 24 | | .24 | .32 | .42 | .47 | .72 | .86 | .86 | .86 | .86 | .86 | .86 | .86 |
| AUG 24 | | .26 | .29 | .37 | .46 | .62 | .77 | .81 | .86 | .86 | .86 | .86 | .86 |
| SEP 2 | | .28 | .47 | .53 | .54 | .55 | .55 | .55 | .55 | .55 | .55 | .55 | .55 |
| SEP 7 | | .23 | .33 | .33 | .33 | .33 | .34 | .34 | .34 | .34 | .35 | .35 | .35 |
| SEP 10 | | .43 | .75 | .79 | .81 | .85 | .91 | .92 | .92 | .93 | .94 | .95 | .95 |
| SEP 10 | | .31 | .35 | .42 | .55 | .71 | .75 | .89 | 1.07 | 1.17 | 1.25 | 1.39 | 1.46 |
| SEP 12 | | .32 | .44 | .53 | .67 | .87 | 1.12 | 1.12 | 1.12 | 1.12 | 1.12 | 1.12 | 1.12 |
| SEP 26 | | .39 | .61 | .78 | .97 | 1.23 | 1.40 | 1.58 | 1.79 | 1.90 | 1.92 | 1.92 | 1.92 |
| SEP 27 | | .28 | .35 | .35 | .35 | .36 | .36 | .36 | .36 | .36 | .36 | .44 | .44 |
| SEP 30 | | .36 | .36 | .36 | .36 | .36 | .36 | .36 | .36 | .36 | .36 | .36 | .36 |
| OCT 8 | | .20 | .24 | .29 | .43 | .53 | .59 | .65 | .68 | .68 | .68 | .68 | .68 |
| OCT 9 | | .31 | .51 | .62 | .68 | .86 | 1.40 | 1.48 | 1.51 | 1.51 | 1.51 | 1.53 | 1.53 |
| OCT 14 | | .26 | .35 | .51 | .53 | .59 | .64 | .64 | .66 | .70 | .70 | .70 | .70 |
| OCT 16 | | .23 | .38 | .53 | .59 | .63 | 1.03 | 1.06 | 1.06 | 1.06 | 1.06 | 1.06 | 1.06 |
| OCT 29 | | .26 | .36 | .44 | .46 | .48 | .49 | .49 | .49 | .49 | .49 | .49 | .51 |
| OCT 29 | | .19 | .28 | .36 | .38 | .39 | .39 | .39 | .39 | .39 | .39 | .39 | .39 |
| OCT 29 | | .19 | .38 | .45 | .47 | .48 | .49 | .49 | .49 | .49 | .49 | .49 | .49 |
| NOV 2 | | .22 | .30 | .33 | .33 | .33 | .33 | .33 | .33 | .33 | .33 | .33 | .33 |
| NOV 3 | | .31 | .51 | .74 | .86 | .88 | .88 | .88 | .88 | .88 | .88 | .88 | .88 |
| NOV 5 | | .39 | .60 | .78 | .98 | 1.06 | 1.07 | 1.08 | 1.10 | 1.10 | 1.10 | 1.10 | 1.10 |
| NOV 7 | | .24 | .34 | .44 | .48 | .50 | .50 | .50 | .50 | .50 | .50 | .63 | .63 |
| NOV 12 | | .24 | .35 | .51 | .63 | .80 | 1.07 | 1.36 | 1.42 | 1.42 | 1.42 | 1.42 | 1.42 |
| DEC 1 | | .28 | .38 | .38 | .38 | .44 | .57 | .57 | .57 | .57 | .57 | .57 | .57 |
| DEC 4 | | .27 | .27 | .39 | .47 | .62 | .82 | .88 | 1.19 | 1.45 | 1.49 | 1.64 | 1.97 |
| DEC 5 | | .31 | .55 | .67 | .87 | 1.07 | 1.59 | 1.21 | 1.38 | 1.50 | 1.50 | 1.50 | 1.50 |
| DEC 10 | | .42 | .67 | .71 | .71 | .71 | .71 | .71 | .71 | .71 | .71 | .71 | .71</ |

(continued)

| Station and date | | Maximum precipitation in inches
(5 to 180 minutes) | | | | | | | | | | | |
|------------------|-----|---|------|------|------|------|------|------|------|------|------|------|------|
| | | 5 | 10 | 15 | 20 | 30 | 45 | 60 | 80 | 100 | 120 | 150 | 180 |
| PACIFIC AREA | | | | | | | | | | | | | |
| YAP R | | | | | | | | | | | | | |
| AUG 24 | .24 | .30 | .33 | .33 | .35 | .39 | .43 | .59 | .70 | .74 | .74 | .74 | .74 |
| AUG 26 | .49 | .80 | 1.03 | 1.31 | 1.68 | 1.95 | 2.23 | 2.19 | 2.22 | 2.25 | 2.30 | 2.34 | 2.34 |
| AUG 27 | .17 | .28 | 1.08 | .38 | .48 | .60 | .66 | .67 | .68 | .72 | .76 | .77 | .77 |
| AUG 29 | .54 | .83 | 1.12 | 1.12 | 1.27 | 1.32 | 1.33 | 1.34 | 1.35 | 1.38 | 1.39 | 1.39 | 1.39 |
| SEP 5 | .35 | .45 | .45 | .59 | .66 | .51 | .51 | .75 | .75 | .91 | 1.07 | 1.14 | 1.14 |
| SEP 1 | .32 | .38 | .44 | .48 | .52 | .57 | .65 | .87 | .98 | 1.06 | 1.20 | 1.29 | 1.29 |
| SEP 2 | .22 | .32 | .37 | .47 | .53 | .59 | .63 | .66 | .67 | .69 | .72 | .74 | .74 |
| SEP 3 | .24 | .33 | .39 | .41 | .45 | .71 | .81 | .78 | 1.01 | 1.03 | 1.10 | 1.18 | 1.18 |
| SEP 10 | .26 | .27 | .27 | .28 | .28 | .29 | .29 | .29 | .29 | .29 | .29 | .29 | .29 |
| SEP 19 | .45 | .67 | .83 | .94 | 1.01 | 1.08 | 1.11 | 1.12 | 1.15 | 1.17 | 1.18 | 1.19 | 1.19 |
| SEP 21 | .21 | .33 | .40 | .41 | .42 | .43 | .43 | .47 | .51 | .52 | .52 | .53 | .53 |
| OCT 4 | .44 | .39 | .44 | .59 | .66 | .51 | .51 | .75 | .75 | .91 | 1.07 | 1.14 | 1.14 |
| OCT 8 | .17 | .32 | .37 | .40 | .41 | .41 | .42 | .43 | .43 | .43 | .57 | .58 | .58 |
| OCT 10 | .23 | .32 | .40 | .46 | .53 | .53 | .53 | .58 | .59 | .61 | .64 | .64 | .64 |
| OCT 12 | .62 | .84 | .90 | .94 | .97 | 1.05 | 1.08 | 1.10 | 1.24 | 1.21 | 1.27 | 1.36 | 1.36 |
| OCT 14 | .54 | .84 | 1.00 | 1.16 | 1.36 | 1.51 | 1.59 | 1.67 | 1.83 | 1.87 | 1.93 | 1.98 | 1.98 |
| OCT 21 | .25 | .30 | .40 | .41 | .41 | .41 | .41 | .57 | .53 | .65 | .65 | .67 | .67 |
| OCT 21 | .30 | .36 | .36 | .37 | .37 | .37 | .38 | .40 | .40 | .40 | .40 | .40 | .40 |
| OCT 23 | .31 | .50 | .58 | .59 | .66 | .67 | .67 | .68 | .68 | .69 | .69 | .69 | .69 |
| NOV 11 | .24 | .35 | .40 | .47 | .57 | .65 | .84 | .99 | 1.15 | 1.22 | 1.31 | 1.35 | 1.35 |
| NOV 14 | .28 | .35 | .37 | .37 | .37 | .37 | .40 | .53 | .53 | .53 | .56 | .59 | .59 |
| NOV 21 | .26 | .45 | .54 | .61 | .70 | .72 | .73 | .73 | .73 | .76 | .80 | .84 | .84 |
| NOV 22 | .66 | .56 | .65 | .83 | 1.05 | 1.19 | 1.20 | 1.20 | 1.20 | 1.21 | 1.21 | 1.21 | 1.21 |
| NOV 26 | .20 | .31 | .31 | .31 | .31 | .31 | .31 | .31 | .31 | .31 | .31 | .31 | .31 |
| NOV 30 | .26 | .29 | .29 | .29 | .30 | .30 | .30 | .30 | .30 | .34 | .35 | .35 | .35 |
| DEC 9 | .37 | .54 | .55 | .56 | .56 | .61 | .66 | .74 | .76 | .76 | .76 | .76 | .76 |
| DEC 13 | .33 | .40 | .43 | .43 | .43 | .43 | .43 | .43 | .43 | .43 | .43 | .43 | .43 |
| DEC 28 | .31 | .42 | .45 | .45 | .45 | .45 | .45 | .45 | .45 | .45 | .45 | .45 | .45 |
| PENNSYLVANIA | | | | | | | | | | | | | |
| ALLENTOWN | | | | | | | | | | | | | |
| JUL 18 | .45 | .55 | .55 | .55 | .55 | .56 | .57 | .65 | .67 | .69 | .70 | .70 | .70 |
| JUL 20 | .45 | .70 | .83 | 1.12 | 1.57 | 1.76 | 1.86 | 1.91 | 1.93 | 1.94 | 1.96 | 1.96 | 1.96 |
| JUL 31 | .30 | .49 | .51 | .60 | .83 | .93 | .98 | 1.06 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 |
| JUL 31 | .17 | .33 | .37 | .39 | .40 | .42 | .44 | .45 | .46 | .46 | .46 | .46 | .46 |
| SEP 27 | .30 | .37 | .38 | .45 | .45 | .45 | .55 | .70 | .73 | .73 | .74 | .74 | .74 |
| ERIE | | | | | | | | | | | | | |
| MAY 25 | .25 | .34 | .40 | .43 | .44 | .44 | .58 | .64 | .74 | .79 | .81 | .81 | .81 |
| JUN 17 | .18 | .26 | .39 | .49 | .51 | .56 | . | . | . | . | . | . | . |
| JUL 3 | .26 | .44 | .53 | .60 | .63 | .76 | .81 | 1.02 | 1.38 | 1.47 | 1.48 | 1.48 | 1.48 |
| JUL 14 | .46 | .74 | .94 | 1.00 | 1.08 | 1.08 | 1.08 | 1.08 | 1.08 | 1.08 | 1.08 | 1.08 | 1.08 |
| JUL 15 | .28 | .46 | .58 | .63 | .67 | .77 | .74 | 1.04 | 1.34 | 1.34 | 1.36 | 1.39 | 1.39 |
| JUL 15 | .28 | .53 | .71 | .74 | .75 | .75 | .75 | .75 | .75 | .75 | .75 | .75 | .75 |
| JUL 30 | .19 | .22 | .35 | .43 | .56 | .58 | .69 | .69 | .69 | .86 | 1.08 | 1.08 | 1.08 |
| JUL 31 | .19 | .37 | .37 | .37 | .37 | .37 | .37 | .37 | .37 | .37 | .37 | .37 | .37 |
| SEP 8 | .35 | .49 | .63 | .74 | 1.00 | 1.15 | 1.49 | 1.52 | 1.53 | 1.77 | 1.81 | 1.81 | 1.81 |
| SEP 14 | .19 | .30 | .40 | .46 | .58 | .75 | .84 | 1.01 | 1.07 | 1.08 | 1.09 | 1.09 | 1.09 |
| SEP 26 | .21 | .39 | .52 | .60 | .66 | .70 | .73 | .75 | .75 | .76 | .76 | .76 | .76 |
| HARRISBURG | | | | | | | | | | | | | |
| JUN 3 | .16 | .27 | .34 | .40 | .46 | .49 | .54 | .63 | .73 | .78 | .80 | .80 | .80 |
| JUN 12 | .25 | .48 | .60 | .70 | .94 | 1.10 | 1.13 | 1.16 | 1.18 | 1.20 | 1.22 | 1.22 | 1.22 |
| JUN 18 | .24 | .33 | .48 | .50 | .51 | .54 | .59 | .77 | .77 | .77 | .77 | .77 | .77 |
| JUL 2 | .43 | .60 | .68 | .72 | .85 | 1.26 | 1.33 | 1.58 | 1.76 | 1.80 | 1.83 | 1.85 | 1.85 |
| JUL 31 | .24 | .48 | .63 | .74 | .85 | 1.08 | 1.15 | 1.25 | 1.33 | 1.34 | 1.34 | 1.34 | 1.34 |
| AUG 3 | .19 | .37 | .52 | .59 | .62 | .63 | .65 | .68 | .70 | .70 | .70 | .70 | .70 |
| PHILADELPHIA | | | | | | | | | | | | | |
| APR 2 | .36 | .53 | .55 | .61 | .65 | .65 | .65 | .66 | .67 | .69 | .72 | .72 | .72 |
| MAY 23 | .20 | .30 | .38 | .39 | .39 | .39 | .39 | .41 | .42 | .42 | .49 | .50 | .50 |
| MAY 26 | .40 | .64 | .72 | .87 | .91 | .91 | .93 | .96 | .97 | .99 | .99 | .99 | .99 |
| JUN 5 | .25 | .42 | .46 | .54 | .57 | .61 | .62 | .62 | .68 | .69 | .70 | .71 | .71 |
| JUN 12 | .25 | .46 | .56 | .60 | .65 | .70 | .77 | .99 | 1.07 | 1.10 | 1.15 | 1.22 | 1.22 |
| JUN 21 | .20 | .28 | .38 | .49 | .72 | .84 | 1.03 | 1.12 | 1.16 | 1.19 | 1.30 | 1.35 | 1.35 |
| JUL 29 | .30 | .39 | .41 | .42 | .45 | .46 | .51 | .58 | .66 | .67 | .67 | .67 | .67 |
| AUG 1 | .20 | .37 | .43 | .48 | .62 | .70 | .77 | .96 | .96 | .96 | .96 | .96 | .96 |
| AUG 14 | .22 | .37 | .43 | .46 | .47 | .47 | .50 | .50 | .50 | .50 | .50 | .50 | .50 |
| AUG 23 | .38 | .68 | .87 | 1.16 | 1.28 | 1.33 | 1.38 | 1.39 | 1.39 | 1.40 | 1.50 | 1.62 | 1.62 |
| PITTSBURGH | | | | | | | | | | | | | |
| MAY 11 | .35 | .54 | .78 | 1.08 | 1.25 | 1.25 | 1.26 | 1.26 | 1.29 | 1.30 | 1.30 | 1.30 | 1.30 |
| MAY 13 | .28 | .31 | .34 | .34 | .35 | .35 | .35 | .35 | .35 | .35 | .35 | .35 | .35 |
| MAY 13 | .28 | .37 | .40 | .41 | .41 | .41 | .41 | .41 | .41 | .41 | .41 | .41 | .41 |
| MAY 15 | .28 | .58 | .69 | .76 | .76 | .76 | .76 | .77 | .77 | .77 | .77 | .77 | .77 |
| MAY 23 | .15 | .50 | .30 | .54 | .57 | .63 | .63 | .68 | .70 | .70 | .71 | .71 | .71 |
| JUN 17 | .18 | .31 | .31 | .32 | .33 | .35 | .39 | .40 | .42 | .42 | .42 | .42 | .42 |
| JUN 21 | .26 | .32 | .37 | .38 | .44 | .52 | .61 | .93 | .94 | 1.00 | 1.32 | 1.32 | 1.32 |
| JUL 8 | .34 | .40 | .40 | .40 | .40 | .40 | .40 | .40 | .40 | .40 | .40 | .40 | .40 |
| JUL 15 | .27 | .41 | .42 | .42 | .42 | .42 | .42 | .42 | .42 | .42 | .42 | .42 | .42 |
| AUG 1 | .26 | .36 | .38 | .38 | .38 | .38 | .38 | .38 | .38 | .38 | .38 | .38 | .38 |
| SEP 4 | .23 | .31 | .32 | .36 | .37 | .39 | .40 | .42 | .42 | .42 | .42 | .42 | .42 |
| SEP 25 | .27 | .38 | .43 | .50 | .53 | .53 | .53 | .53 | .53 | .53 | .53 | .53 | .53 |
| PITTSBURGH J | | | | | | | | | | | | | |
| JUL 26 | .57 | .94 | 1.05 | 1.20 | 1.58 | 1.59 | 1.66 | 1.66 | 1.65 | 1.66 | 1.66 | 1.66 | 1.66 |
| AUG 7 | .25 | .45 | .48 | .49 | .52 | .60 | .67 | .62 | .62 | .62 | .62 | .62 | .62 |
| AUG 19 | .22 | .32 | .37 | .52 | .54 | .55 | .55 | .55 | .55 | .55 | .55 | .55 | .55 |
| WILKES BARRE | | | | | | | | | | | | | |
| JUL 3 | .13 | .24 | .34 | .40 | .44 | .54 | .54 | .54 | .54 | .54 | .54 | .54 | .54 |
| JUL 15 | .23 | .34 | .37 | .39 | .41 | .41 | .43 | .46 | .49 | .50 | .50 | .50 | .50 |
| JUL 20 | .19 | .35 | .43 | .46 | .51 | .52 | .57 | .54 | .54 | .58 | .62 | .62 | .62 |
| SEP 10 | .22 | .35 | .37 | .38 | .39 | .43 | .44 | .45 | .45 | .45 | .45 | .45 | .45 |
| SEP 18 | .16 | .31 | .33 | .35 | .37 | .38 | .39 | .40 | .41 | .47 | .50 | .53 | .53 |
| RHODE ISLAND | | | | | | | | | | | | | |
| BLOCK ISLAND | | | | | | | | | | | | | |
| AUG 23 | .40 | .55 | .65 | .85 | .90 | 1.35 | 1.40 | 1.40 | 1.70 | 1.75 | 1.85 | 1.97 | 1.97 |
| PROVIDENCE | | | | | | | | | | | | | |
| JUL 3 | .22 | .40 | .54 | .55 | .58 | .61 | .71 | .76 | .83 | .85 | .85 | .85 | .85 |
| AUG 2 | .24 | .46 | .59 | .63 | .65 | .65 | .65 | .65 | .65 | .65 | .65 | .65 | .65 |
| AUG 21 | .18 | .32 | .38 | .49 | .65 | .68 | .97 | .98 | .98 | .98 | .98 | .98 | .98 |
| AUG 28 | .30 | .54 | .76 | .87 | 1.10 | 1.32 | 1.33 | 1.33 | 1.54 | 2.20 | 2.45 | 2.53 | 2.53 |
| M. NO RECORD | | | | | | | | | | | | | |

| Station and date | | Maximum precipitation in inches
5 to 180 minutes | | | | | | | | | | | | |
|-------------------|--|---|-----|------|------|------|------|------|------|------|------|------|------|--|
| | | 5 | 10 | 15 | 20 | 30 | 45 | 60 | 90 | 100 | 120 | 150 | 180 | |
| SOUTH CAROLINA | | | | | | | | | | | | | | |
| CHARLESTON | | | | | | | | | | | | | | |
| MAR 19 | | .23 | .49 | .33 | .38 | .40 | .42 | .45 | .47 | .54 | .57 | .58 | .72 | |
| MAR 30 | | .18 | .21 | .37 | .38 | .52 | .51 | .72 | .79 | .87 | .76 | 1.12 | 1.15 | |
| APR 13 | | .35 | .45 | .48 | .50 | .57 | .58 | .70 | .70 | .80 | .70 | .80 | .70 | |
| JUL 20 | | .35 | .40 | .50 | 1.28 | .43 | 1.43 | .50 | 1.11 | .51 | .62 | .53 | .73 | |
| JUL 22 | | .47 | .53 | .58 | .51 | .64 | .67 | .71 | .84 | .87 | .83 | 1.24 | 1.25 | |
| JUL 25 | | .55 | .53 | .64 | .57 | .68 | .68 | .68 | .68 | .68 | .68 | .68 | .68 | |
| AUG 15 | | .35 | .45 | .75 | .75 | 1.05 | 1.13 | 1.11 | 1.12 | .88 | 1.62 | 1.72 | 1.83 | |
| AUG 22 | | .68 | .58 | .67 | .68 | .71 | .75 | .79 | .83 | .83 | .93 | .93 | .73 | |
| AUG 25 | | .24 | .45 | .50 | .70 | .73 | .77 | .99 | .80 | .81 | .82 | .82 | .75 | |
| AUG 25 | | .22 | .42 | .59 | .75 | 1.11 | 1.21 | 1.30 | 1.35 | 1.35 | 1.43 | 1.48 | 1.52 | |
| AUG 26 | | .69 | .44 | .50 | .75 | 1.00 | 1.25 | .32 | 1.35 | 1.47 | .40 | 1.49 | 1.51 | |
| AUG 27 | | .25 | .35 | .49 | .64 | .82 | .92 | .95 | .98 | 1.10 | .12 | .14 | .73 | |
| OCT 30 | | .28 | .70 | .74 | .76 | .78 | .79 | 1.00 | 1.13 | .55 | 1.15 | 1.14 | 1.23 | |
| OCT 30 | | .23 | .34 | .40 | .54 | .60 | .64 | .78 | .85 | .99 | .90 | .92 | .95 | |
| DEC 16 | | .23 | .36 | .38 | .43 | .50 | .55 | .55 | .70 | .71 | .75 | .88 | .93 | |
| CHARLESTON J | | | | | | | | | | | | | | |
| MAR 5 | | .20 | .76 | .40 | .60 | .74 | .82 | .84 | .57 | .40 | .95 | .49 | .95 | |
| MAY 29 | | .27 | .28 | .28 | .28 | .28 | .28 | .46 | .46 | .46 | .46 | .46 | .46 | |
| MAY 30 | | .17 | .29 | .41 | .50 | .65 | .73 | .88 | 1.22 | .51 | 1.55 | 1.62 | 1.53 | |
| JUN 26 | | .29 | .44 | .63 | .71 | .73 | .73 | .73 | .73 | .73 | .73 | .73 | .73 | |
| AUG 24 | | .22 | .22 | .73 | .27 | .27 | .27 | .31 | .70 | .40 | .19 | .43 | .38 | |
| COLUMBIA | | | | | | | | | | | | | | |
| MAR 26 | | .25 | .25 | .25 | .45 | .25 | .25 | .25 | .25 | .25 | .25 | .25 | .25 | |
| MAY 15 | | .16 | .31 | .38 | .91 | .62 | .65 | .68 | .73 | .82 | .88 | .91 | .92 | |
| JUN 21 | | .25 | .45 | .55 | .58 | .70 | .78 | .78 | .78 | .78 | .78 | .83 | .83 | |
| JUL 2 | | .25 | .26 | .26 | .26 | .26 | .26 | .26 | .26 | .26 | .26 | .26 | .26 | |
| JUL 21 | | .30 | .60 | .72 | .84 | 1.05 | 1.10 | 1.12 | 1.17 | 1.35 | 1.55 | 1.90 | 1.95 | |
| JUL 22 | | .30 | .60 | .60 | .60 | .61 | .64 | .64 | .69 | .67 | .70 | .71 | .70 | |
| AUG 9 | | .25 | .33 | .35 | .71 | .53 | .63 | .63 | .64 | .65 | .65 | .76 | .81 | |
| AUG 19 | | .30 | .48 | .52 | .54 | .50 | .53 | .59 | .59 | .59 | .59 | .59 | .59 | |
| AUG 30 | | .30 | .60 | .73 | .74 | .74 | .74 | .74 | .74 | .74 | .74 | .74 | .74 | |
| SEP 3 | | .45 | .85 | .65 | 1.37 | 1.48 | 1.52 | 1.68 | 1.71 | 1.77 | 1.79 | 1.83 | 1.80 | |
| OCT 25 | | .18 | .30 | .37 | .47 | .54 | .63 | .77 | .82 | .98 | 1.25 | 1.38 | 1.53 | |
| OCT 30 | | .45 | .65 | .72 | .90 | 1.25 | 1.55 | 1.67 | 2.34 | 2.54 | 2.54 | 2.76 | 2.77 | |
| GNILE SPARTANBURG | | | | | | | | | | | | | | |
| MAY 16 | | .30 | .38 | .46 | .48 | .48 | .48 | .49 | .49 | .49 | .49 | .47 | .49 | |
| MAY 26 | | .22 | .30 | .50 | .50 | .51 | .52 | .52 | .52 | .52 | .52 | .52 | .52 | |
| JUN 11 | | .37 | .62 | .93 | .88 | 1.14 | 1.12 | 1.18 | 1.18 | 1.18 | 1.19 | 1.17 | 1.19 | |
| JUN 14 | | .34 | .48 | .53 | .63 | .65 | .97 | .99 | 1.01 | 1.04 | 1.25 | 1.31 | .91 | |
| JUN 25 | | .15 | .30 | .45 | .54 | .70 | .76 | .80 | .80 | .80 | .80 | .80 | .81 | |
| JUL 25 | | .22 | .32 | .37 | .42 | .62 | .71 | .72 | .73 | .73 | .73 | .73 | .73 | |
| AUG 21 | | .16 | .30 | .42 | .50 | .60 | .62 | .66 | .68 | .68 | .68 | .69 | .69 | |
| SOUTH DAKOTA | | | | | | | | | | | | | | |
| ABERDEEN | | | | | | | | | | | | | | |
| JUN 14 | | .12 | .24 | .27 | .37 | .54 | .62 | .66 | .68 | .71 | .71 | .71 | .71 | |
| JUL 29 | | .22 | .34 | .37 | .47 | .69 | .85 | .93 | .95 | .95 | .95 | .95 | .95 | |
| BURN | | | | | | | | | | | | | | |
| MAY 30 | | .33 | .53 | .69 | .75 | .87 | 1.04 | 1.09 | 1.17 | 1.22 | 1.27 | 1.29 | 1.29 | |
| JUN 15 | | .50 | .75 | .93 | 1.10 | 1.27 | 1.32 | 1.35 | 1.41 | 1.42 | 1.42 | 1.42 | 1.42 | |
| JUN 15 | | .35 | .53 | .65 | .75 | .80 | .83 | .86 | .89 | .97 | 1.29 | 1.07 | 1.49 | |
| JUL 13 | | .22 | .34 | .39 | .40 | .54 | .58 | .65 | .96 | 1.05 | 1.30 | 1.32 | 1.33 | |
| RAPID CITY | | | | | | | | | | | | | | |
| NONE | | | | | | | | | | | | | | |
| SIOUX FALLS | | | | | | | | | | | | | | |
| MAY 24 | | .17 | .28 | .33 | .41 | .53 | .57 | .60 | .54 | .55 | .65 | .65 | .65 | |
| MAY 28 | | .24 | .48 | .63 | .72 | 1.00 | 1.10 | 1.27 | 1.78 | 2.37 | 2.40 | 2.56 | 2.56 | |
| JUN 15 | | .28 | .48 | .63 | .72 | .93 | .93 | .93 | .93 | .93 | .93 | .93 | .93 | |
| JUL 1 | | .24 | .38 | .44 | .49 | .53 | .56 | .56 | .57 | .64 | .64 | .64 | .65 | |
| JUL 13 | | .21 | .35 | .49 | .52 | .55 | .55 | .55 | .55 | .55 | .55 | .55 | .55 | |
| TENNESSEE | | | | | | | | | | | | | | |
| BRISTOL | | | | | | | | | | | | | | |
| APR 28 | | .24 | .28 | .30 | .45 | .52 | .67 | .74 | .76 | .77 | .77 | .77 | .82 | |
| MAY 15 | | .28 | .38 | .39 | .40 | .41 | .41 | .41 | .41 | .41 | .41 | .41 | .41 | |
| MAY 16 | | .35 | .39 | .41 | .43 | .44 | .45 | .45 | .45 | .45 | .45 | .45 | .45 | |
| JUL 26 | | .34 | .66 | .69 | .70 | .71 | .71 | .73 | .74 | .75 | .75 | .75 | .75 | |
| JUL 30 | | .16 | .23 | .32 | .38 | .56 | .65 | .65 | .65 | .65 | .65 | .65 | .65 | |
| JUL 31 | | .20 | .43 | .41 | .42 | .44 | .44 | .44 | .44 | .44 | .44 | .44 | .44 | |
| AUG 1 | | .27 | .52 | .56 | .62 | .65 | .66 | .67 | .69 | .71 | .71 | .72 | .72 | |
| AUG 23 | | .22 | .27 | .30 | .40 | .42 | .42 | .43 | .46 | .70 | .73 | .73 | .84 | |
| SEP 10 | | .27 | .29 | .30 | .31 | .31 | .31 | .32 | .32 | .32 | .32 | .32 | .32 | |
| CHATTANOOGA | | | | | | | | | | | | | | |
| APR 26 | | .32 | .51 | .65 | .60 | .48 | 1.13 | 1.19 | 1.41 | 1.47 | 1.50 | 1.59 | 1.60 | |
| MAY 16 | | .31 | .38 | .41 | .41 | .41 | .41 | .41 | .41 | .41 | .41 | .41 | .41 | |
| MAY 16 | | .20 | .31 | .35 | .35 | .53 | .60 | .61 | .74 | .74 | .76 | .85 | .85 | |
| MAY 29 | | .32 | .51 | .55 | .56 | .56 | .57 | .57 | .58 | .61 | .62 | .62 | .62 | |
| JUN 11 | | .24 | .49 | .50 | .73 | .75 | .75 | .75 | .75 | .75 | .75 | .75 | .75 | |
| JUN 20 | | .19 | .29 | .37 | .48 | .57 | .59 | .63 | .64 | .66 | .69 | .69 | .69 | |
| JUN 26 | | .21 | .30 | .39 | .53 | .64 | .74 | 1.03 | 1.07 | 1.07 | 1.07 | 1.07 | 1.07 | |
| AUG 3 | | .20 | .38 | .47 | .48 | .59 | .59 | .59 | .59 | .62 | .63 | .63 | .63 | |
| AUG 29 | | .19 | .33 | .42 | .47 | .58 | .62 | .64 | .67 | .70 | .72 | .72 | .72 | |
| SEP 3 | | .35 | .46 | .55 | .56 | .62 | .62 | .65 | 1.06 | 1.05 | .76 | 1.14 | 1.06 | |
| SEP 7 | | .19 | .34 | .39 | .40 | .43 | .43 | .43 | .43 | .43 | .44 | .44 | .46 | |
| KNOXVILLE | | | | | | | | | | | | | | |
| APR 27 | | .37 | .73 | 1.12 | 1.30 | .75 | 1.10 | 2.07 | 2.73 | 1.63 | 2.73 | 2.83 | 2.83 | |
| APR 5 | | .45 | .44 | .38 | .49 | .42 | .51 | .60 | .65 | .65 | .65 | .65 | .65 | |
| JUN 13 | | .20 | .34 | .41 | .42 | .47 | .50 | .60 | .60 | .65 | .67 | .67 | .67 | |
| JUN 18 | | .38 | .47 | .53 | .57 | .57 | .57 | .57 | .57 | .57 | .57 | .57 | .57 | |
| JUL 23 | | .42 | .41 | .52 | .65 | .68 | .68 | .68 | .68 | .68 | .68 | .68 | .68 | |
| AUG 1 | | .33 | .46 | .59 | .50 | .51 | .62 | .57 | .60 | .59 | .59 | .59 | .59 | |
| AUG 3 | | .25 | .37 | .35 | .42 | .49 | .49 | .49 | .49 | .49 | .49 | .49 | .49 | |
| AUG 8 | | .42 | .37 | .43 | .47 | .59 | .71 | .73 | .73 | .73 | .73 | .73 | .73 | |
| SEP 3 | | .20 | .32 | .51 | .52 | .53 | .54 | .54 | .54 | .57 | .57 | .57 | .57 | |
| OCT 10 | | .39 | .44 | .47 | .52 | .62 | .67 | .64 | .69 | 1.19 | 1.22 | 1.23 | 1.23 | |
| MEMPHIS | | | | | | | | | | | | | | |
| APR 3 | | .19 | .30 | .35 | .40 | .44 | .44 | .46 | .46 | .46 | .46 | 1.09 | 1.14 | |
| APR 25 | | .27 | .33 | .47 | .50 | .53 | .54 | .54 | .54 | .54 | .54 | .54 | .54 | |
| APR 24 | | .40 | .41 | .52 | .53 | .56 | .60 | .64 | .64 | .64 | .64 | .64 | .64 | |
| JUN 2 | | .29 | .37 | .39 | .48 | .49 | .49 | .49 | .49 | .49 | .49 | .49 | .49 | |
| JUN 13 | | .37 | .45 | .45 | .49 | .55 | .55 | .55 | .55 | .55 | .55 | .55 | .55 | |
| JUN 14 | | .37 | .49 | .49 | .51 | .55 | .55 | .55 | .55 | .55 | .55 | .55 | .55 | |
| JUN 13 | | .33 | .59 | .70 | .73 | .73 | .73 | .73 | .73 | .73 | .73 | .73 | .73 | |

SUNSHINE, AMOUNT AND PERCENT

YEAR 1970

| Station | | January | | February | | March | | April | | May | | June | | July | | August | | September | | October | | November | | December | | Annual | | |
|----------------------|---------------------|---------|---------------------|----------|---------------------|-------|---------------------|-------|---------------------|-------|---------------------|-------|---------------------|-------|---------------------|--------|---------------------|-----------|---------------------|---------|---------------------|----------|---------------------|----------|---------------------|--------|---------------------|--|
| | | Hours | Percent of possible | Hours | Percent of possible | Hours | Percent of possible | Hours | Percent of possible | Hours | Percent of possible | Hours | Percent of possible | Hours | Percent of possible | Hours | Percent of possible | Hours | Percent of possible | Hours | Percent of possible | Hours | Percent of possible | Hours | Percent of possible | Hours | Percent of possible | |
| ALABAMA | ALABAMA | 165 | 52 | 176 | 57 | 187 | 50 | 249 | 64 | 334 | 78 | 307 | 71 | 324 | 74 | 256 | 62 | 270 | 73 | 178 | 51 | 171 | 55 | 168 | 54 | 2784 | 63 | |
| | BIRMINGHAM | 161 | 50 | 203 | 66 | 201 | 54 | 217 | 56 | 303 | 71 | 279 | 65 | 318 | 73 | 225 | 55 | 268 | 72 | 168 | 48 | 185 | 59 | 164 | 52 | 2690 | 61 | |
| ALASKA | ANCHORAGE | 90 | 44 | 33 | 13 | 158 | 43 | 183 | 41 | 319 | 59 | 258 | 45 | 179 | 31 | 160 | 33 | 185 | 48 | 135 | 44 | 87 | 40 | 74 | 42 | 1862 | 41 | |
| | JUNEAU | 81 | 36 | 73 | 28 | 90 | 24 | 116 | 27 | 125 | 24 | 90 | 16 | 101 | 19 | 97 | 20 | 62 | 16 | 28 | 9 | 86 | 36 | 51 | 25 | 9980 | 22 | |
| | NOME | 114 | 68 | 154 | 65 | 237 | 65 | 259 | 57 | 351 | 61 | 308 | 49 | 176 | 29 | 143 | 28 | 194 | 50 | 92 | 30 | 51 | 27 | 56 | 43 | 2136 | 47 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ARIZONA | PHOENIX | 273 | 86 | 258 | 84 | 310 | 83 | 355 | 91 | 412 | 96 | 415 | 97 | 376 | 86 | 320 | 77 | 307 | 83 | 314 | 89 | 259 | 83 | 186 | 60 | 3785 | 85 | |
| | TUCSON | 275 | 86 | 266 | 86 | 326 | 88 | 356 | 92 | 413 | 97 | 404 | 95 | 331 | 76 | 311 | 76 | 309 | 83 | 318 | 90 | 279 | 88 | 207 | 66 | 3795 | 85 | |
| | YUMA | 229 | 72 | 228 | 74 | 335 | 90 | 361 | 93 | 416 | 97 | 417 | 97 | 376 | 86 | 366 | 88 | 358 | 97 | 325 | 92 | 269 | 85 | 218 | 70 | 3896 | 88 | |
| ARKANSAS | FORT SMITH | 196 | 63 | 187 | 61 | 155 | 42 | 244 | 62 | 325 | 75 | 317 | 73 | 327 | 74 | 311 | 75 | 214 | 58 | 162 | 46 | 156 | 50 | 160 | 52 | 2752 | 62 | |
| | LITTLE ROCK | 187 | 60 | 171 | 56 | 145 | 39 | 240 | 61 | 342 | 79 | 326 | 75 | 312 | 71 | 251 | 60 | 286 | 77 | 181 | 52 | 151 | 49 | 138 | 45 | 2729 | 61 | |
| CALIFORNIA | EUREKA U | 111 | 37 | 220 | 74 | 286 | 77 | 313 | 78 | 279 | 62 | 221 | 49 | 217 | 47 | 186 | 44 | 293 | 78 | 189 | 55 | 107 | 36 | 126 | 44 | 2546 | 57 | |
| | FRESNO | 174 | 56 | 220 | 72 | 330 | 89 | 362 | 92 | 422 | 96 | 392 | 89 | 420 | 94 | 418 | 100 | 372 | 100 | 299 | 86 | 196 | 64 | 76 | 25 | 3681 | 83 | |
| | LOS ANGELES U | 147 | 46 | 222 | 72 | 275 | 74 | 367 | 94 | 315 | 73 | 304 | 70 | 395 | 90 | 387 | 93 | 339 | 91 | 173 | 49 | 216 | 69 | 244 | 79 | 3385 | 76 | |
| | RED BLUFF | 85 | 28 | 197 | 66 | 302 | 82 | 350 | 88 | 404 | 90 | 390 | 87 | 451 | 99 | 426 | 100 | 367 | 98 | 286 | 83 | 116 | 39 | 97 | 33 | 3471 | 78 | |
| | SACRAMENTO | 145 | 48 | 217 | 72 | 312 | 84 | 357 | 90 | 399 | 90 | 409 | 92 | 449 | 100 | 422 | 100 | 365 | 98 | 303 | 87 | 158 | 52 | 111 | 38 | 3647 | 82 | |
| | SAN DIEGO | 200 | 63 | 226 | 73 | 276 | 74 | 313 | 80 | 291 | 68 | 243 | 57 | 321 | 74 | 323 | 78 | 296 | 80 | 236 | 67 | 231 | 73 | 204 | 65 | 3160 | 71 | |
| | SAN FRANCISCO U | 142 | 46 | 243 | 80 | 314 | 85 | 366 | 93 | 340 | 77 | 288 | 65 | 278 | 62 | 250 | 59 | 349 | 94 | 233 | 67 | 117 | 39 | 98 | 33 | 3018 | 68 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| COLORADO | DENVER | 206 | 68 | 220 | 73 | 212 | 57 | 284 | 71 | 313 | 70 | 341 | 76 | 318 | 70 | 287 | 68 | 285 | 76 | 229 | 66 | 179 | 60 | 218 | 75 | 3092 | 69 | |
| | GRAND JUNCTION | 157 | 52 | 224 | 75 | 182 | 49 | 238 | 60 | 338 | 76 | 337 | 76 | 347 | 77 | 289 | 68 | 307 | 82 | 214 | 62 | 149 | 50 | 179 | 61 | 2963 | 67 | |
| | PUEBLO | 203 | 66 | 231 | 77 | 208 | 56 | 323 | 82 | 342 | 77 | 358 | 81 | 328 | 73 | 325 | 77 | 284 | 76 | 229 | 66 | 189 | 62 | 233 | 79 | 3252 | 73 | |
| CONNECTICUT | HARTFORD | 209 | 71 | 193 | 65 | 237 | 64 | 290 | 72 | 248 | 55 | 246 | 54 | 279 | 61 | 305 | 71 | 200 | 53 | 155 | 45 | 98 | 33 | 118 | 41 | 2576 | 58 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DISTRICT OF COLUMBIA | WASHINGTON NATIONAL | 149 | 49 | 155 | 52 | 161 | 43 | 200 | 50 | 295 | 67 | 285 | 64 | 262 | 58 | 296 | 70 | 301 | 81 | 161 | 46 | 111 | 32 | 153 | 52 | 2530 | 57 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FLORIDA | APALACHICOLA U | 143 | 44 | 224 | 72 | 248 | 67 | 312 | 81 | 358 | 85 | 335 | 80 | 289 | 67 | 197 | 48 | 290 | 78 | 204 | 57 | 282 | 88 | 242 | 76 | 3122 | 70 | |
| | JACKSONVILLE | 195 | 60 | 222 | 71 | 260 | 70 | 249 | 64 | 326 | 77 | 283 | 67 | 260 | 60 | 212 | 52 | 288 | 78 | 216 | 61 | 233 | 73 | 198 | 63 | 2941 | 66 | |
| | KEY WEST | 179 | 53 | 203 | 64 | 305 | 82 | 352 | 92 | 324 | 78 | 329 | 81 | 273 | 65 | 306 | 76 | 237 | 64 | 241 | 67 | 225 | 68 | 300 | 91 | 3273 | 74 | |
| | LAKE LAND U | 156 | 48 | 205 | 65 | 223 | 60 | 301 | 78 | 343 | 82 | 250 | 60 | 250 | 59 | 256 | 63 | 255 | 69 | 238 | 67 | 242 | 75 | 256 | 80 | 2974 | 67 | |
| | TAMPA | 179 | 54 | 183 | 58 | 191 | 51 | 266 | 69 | 280 | 67 | 249 | 60 | 253 | 59 | 191 | 47 | 221 | 60 | 174 | 49 | 217 | 67 | 234 | 72 | 2637 | 59 | |
| GEORGIA | ATLANTA | 170 | 54 | 186 | 60 | 194 | 52 | 230 | 59 | 332 | 77 | 292 | 68 | 322 | 73 | 265 | 64 | 267 | 72 | 165 | 47 | 203 | 65 | 165 | 54 | 2791 | 63 | |
| | MACON | 159 | 50 | 202 | 65 | 174 | 47 | 226 | 58 | 308 | 72 | 269 | 63 | 226 | 52 | 231 | 56 | 276 | 74 | 175 | 50 | 201 | 64 | 181 | 58 | 2628 | 59 | |
| | SAVANNAH | 167 | 52 | 210 | 68 | 215 | 58 | 239 | 61 | 325 | 76 | 323 | 76 | 312 | 72 | 238 | 58 | 258 | 70 | 186 | 53 | 230 | 73 | 211 | 67 | 2914 | 66 | |
| HAWAII | HILO | 202 | 59 | 162 | 50 | 173 | 46 | 122 | 32 | 149 | 37 | 114 | 28 | 201 | 49 | 165 | 42 | 184 | 50 | 148 | 41 | 94 | 28 | 47 | 14 | 1758 | 40 | |
| | HONOLULU | 188 | 55 | 231 | 72 | 291 | 78 | 284 | 75 | 278 | 68 | 263 | 65 | 305 | 74 | 298 | 75 | 285 | 77 | 253 | 70 | 269 | 80 | 256 | 76 | 3200 | 72 | |
| | KAHULUI | 245 | 72 | 233 | 73 | 313 | 84 | 285 | 75 | 319 | 78 | 308 | 77 | 314 | 76 | 308 | 77 | 289 | 79 | 263 | 73 | 183 | 55 | 231 | 68 | 3292 | 74 | |
| | LIHUE | 157 | 46 | 153 | 48 | 233 | 62 | 170 | 45 | 182 | 45 | 147 | 36 | 157 | 38 | 180 | 45 | 215 | 58 | 158 | 44 | 88 | 26 | 80 | 24 | 1920 | 43 | |
| IDAHO | BOISE | 93 | 32 | 201 | 68 | 251 | 68 | 264 | 65 | 342 | 75 | 331 | 72 | 407 | 87 | 405 | 94 | 303 | 81 | 230 | 67 | 74 | 25 | 132 | 47 | 3032 | 68 | |
| | POCATELLO | 74 | 25 | 229 | 77 | 232 | 63 | 214 | 53 | 317 | 70 | 324 | 71 | 366 | 79 | 356 | 83 | 282 | 75 | 215 | 63 | 93 | 32 | 88 | 31 | 2790 | 63 | |
| ILLINOIS | CAIRO U | 138 | 45 | 133 | 44 | 147 | 40 | 215 | 54 | 326 | 74 | 295 | 67 | 305 | 68 | 260 | 62 | 241 | 65 | 175 | 57 | 128 | 42 | 130 | 43 | 2492 | 56 | |
| | CHICAGO MIDWAY | 131 | 44 | 151 | 51 | 175 | 47 | 207 | 52 | 268 | 59 | 279 | 61 | 290 | 63 | 314 | 73 | 205 | 55 | 169 | 49 | 70 | 24 | 97 | 34 | 2432 | 53 | |
| | MOLINF | 161 | 54 | 197 | 66 | 199 | 54 | 226 | 57 | 278 | 62 | 299 | 66 | 321 | 70 | 283 | 66 | 207 | 55 | 171 | 50 | 130 | 44 | 149 | 52 | 2622 | 59 | |
| | PEORIA | 177 | 59 | 206 | 69 | 198 | 54 | 242 | 61 | 304 | 68 | 301 | 67 | 359 | 79 | 302 | 71 | 198 | 53 | 175 | 51 | 100 | 34 | 120 | 41 | 2682 | 60 | |
| | SPRINGFIELD | 175 | 58 | 176 | 59 | 178 | 48 | 237 | 59 | 300 | 67 | 294 | 57 | 342 | 75 | 269 | 63 | 229 | 61 | 162 | 47 | 136 | 45 | 167 | 57 | 2625 | 59 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| INDIANA | EVANSVILLE | 124 | 41 | 126 | 42 | 136 | 37 | 204 | 52 | 334 | 76 | 294 | 66 | 324 | 72 | 283 | 67 | 278 | 75 | 184 | 53 | 100 | 33 | 147 | 49 | 2533 | 57 | |
| | FORT WAYNE | 145 | 49 | 177 | 59 | 188 | 51 | 244 | 61 | 328 | 73 | 347 | 77 | 343 | 75 | 359 | 84 | 242 | 65 | 178 | 52 | | | | | | | |

SUNSHINE, AMOUNT AND PERCENT

1938 1939

| Station | January | | February | | March | | April | | May | | June | | July | | August | | September | | October | | November | | December | | Annual | |
|-----------------------------|---------|---------------------|----------|---------------------|-------|---------------------|-------|---------------------|-------|---------------------|-------|---------------------|-------|---------------------|--------|---------------------|-----------|---------------------|---------|---------------------|----------|---------------------|----------|---------------------|--------|---------------------|
| | Hours | Percent of possible | Hours | Percent of possible | Hours | Percent of possible | Hours | Percent of possible | Hours | Percent of possible | Hours | Percent of possible | Hours | Percent of possible | Hours | Percent of possible | Hours | Percent of possible | Hours | Percent of possible | Hours | Percent of possible | Hours | Percent of possible | Hours | Percent of possible |
| MICHIGAN
SAULT STE MARIE | 123 | 44 | 175 | 60 | 251 | 68 | 242 | 59 | 175 | 38 | 341 | 72 | 262 | 55 | 299 | 68 | 138 | 37 | 111 | 33 | 87 | 31 | 114 | 42 | 2317 | 52 |
| MINNESOTA
DULUTH | 169 | 60 | 164 | 57 | 254 | 69 | 217 | 53 | 178 | 38 | 274 | 58 | 387 | 81 | 375 | 85 | 167 | 44 | 124 | 37 | 79 | 28 | 86 | 32 | 2473 | 55 |
| MINNEAPOLIS | 131 | 46 | 186 | 64 | 236 | 64 | 240 | 59 | 251 | 55 | 341 | 73 | 388 | 82 | 316 | 73 | 224 | 60 | 168 | 49 | 79 | 28 | 97 | 35 | 2660 | 60 |
| MISSISSIPPI
JACKSON | 178 | 56 | 198 | 64 | 191 | 52 | 212 | 54 | 290 | 68 | 282 | 66 | 258 | 59 | 242 | 59 | 262 | 71 | 176 | 50 | 172 | 55 | 158 | 51 | 2620 | 59 |
| MISSOURI
COLUMBIA | 185 | 61 | 178 | 59 | 159 | 43 | 240 | 61 | 285 | 64 | 254 | 57 | 353 | 78 | 261 | 62 | 201 | 54 | 165 | 48 | 138 | 46 | 177 | 60 | 2596 | 58 |
| KANSAS CITY | 191 | 63 | 198 | 66 | 182 | 49 | 282 | 71 | 334 | 75 | 285 | 64 | 387 | 85 | 329 | 78 | 217 | 58 | 167 | 48 | 131 | 44 | 178 | 61 | 2881 | 65 |
| ST LOUIS | 152 | 50 | 151 | 50 | 143 | 39 | 254 | 64 | 344 | 78 | 263 | 59 | 322 | 71 | 218 | 52 | 288 | 77 | 158 | 46 | 116 | 38 | 142 | 48 | 2552 | 57 |
| SPRINGFIELD | 193 | 63 | 164 | 54 | 142 | 38 | 230 | 58 | 351 | 80 | 324 | 73 | 371 | 83 | 312 | 74 | 247 | 66 | 167 | 48 | 132 | 43 | 159 | 53 | 2791 | 63 |
| MONTANA
BILLINGS | 127 | 45 | 197 | 68 | 236 | 64 | 291 | 72 | 248 | 54 | 324 | 69 | 344 | 72 | 373 | 85 | 234 | 62 | 188 | 56 | 82 | 29 | 91 | 34 | 2734 | 61 |
| GREAT FALLS | 104 | 37 | 161 | 56 | 260 | 70 | 260 | 63 | 304 | 65 | 344 | 72 | 381 | 79 | 392 | 89 | 253 | 67 | 219 | 65 | 117 | 42 | 130 | 49 | 2923 | 65 |
| HAVER | 139 | 51 | 168 | 59 | 222 | 60 | 283 | 69 | 371 | 79 | 389 | 81 | 421 | 87 | 400 | 90 | 298 | 79 | 225 | 67 | 113 | 41 | 156 | 60 | 3185 | 71 |
| MISSOULA | 123 | 44 | 198 | 68 | 145 | 39 | 164 | 40 | 298 | 64 | 307 | 65 | 357 | 75 | 390 | 89 | 246 | 65 | 198 | 59 | 127 | 45 | 97 | 36 | 2649 | 59 |
| MISSOULA | 63 | 23 | 128 | 44 | 176 | 48 | 180 | 44 | 279 | 60 | 271 | 57 | 362 | 75 | 390 | 89 | 214 | 57 | 230 | 68 | 142 | 50 | 73 | 27 | 2507 | 56 |
| NEBRASKA
LINCOLN U | 168 | 56 | 214 | 72 | 197 | 53 | 265 | 66 | 307 | 69 | 316 | 70 | 356 | 78 | 319 | 75 | 233 | 62 | 178 | 52 | 128 | 43 | 169 | 59 | 2851 | 64 |
| NORTH PLATTE | 171 | 57 | 198 | 67 | 178 | 48 | 259 | 65 | 336 | 75 | 372 | 82 | 382 | 83 | 324 | 76 | 290 | 77 | 224 | 65 | 141 | 48 | 212 | 74 | 3085 | 69 |
| OMAHA | 149 | 50 | 219 | 73 | 192 | 52 | 266 | 67 | 331 | 74 | 363 | 80 | 343 | 75 | 286 | 67 | 229 | 61 | 158 | 46 | 113 | 38 | 173 | 60 | 2821 | 63 |
| VALENTINE | 157 | 54 | 167 | 57 | 207 | 56 | 240 | 60 | 263 | 58 | 344 | 75 | 387 | 77 | 289 | 67 | 254 | 68 | 202 | 59 | 131 | 45 | 214 | 76 | 2824 | 63 |
| NEVADA
ELY | 206 | 68 | 229 | 76 | 280 | 76 | 255 | 64 | 377 | 85 | 319 | 71 | 337 | 74 | 330 | 78 | 335 | 90 | 247 | 71 | 127 | 42 | 205 | 70 | 3246 | 73 |
| LAS VEGAS | 221 | 71 | 237 | 78 | 322 | 87 | 360 | 91 | 415 | 95 | 406 | 93 | 346 | 78 | 361 | 86 | 371 | 100 | 312 | 89 | 254 | 82 | 203 | 76 | 3834 | 84 |
| RENO | 207 | 69 | 237 | 79 | 277 | 75 | 243 | 61 | 345 | 77 | 275 | 61 | 403 | 89 | 407 | 96 | 352 | 94 | 274 | 79 | 135 | 45 | 83 | 28 | 3238 | 73 |
| WINNEMUCCA | 139 | 47 | 224 | 75 | 269 | 73 | 215 | 54 | 373 | 83 | 321 | 71 | 402 | 88 | 382 | 89 | 307 | 82 | 294 | 85 | 164 | 55 | 156 | 54 | 3245 | 73 |
| NEW HAMPSHIRE
CONCORD | 199 | 68 | 160 | 54 | 221 | 60 | 252 | 63 | 252 | 55 | 297 | 65 | 322 | 69 | 313 | 73 | 182 | 48 | 138 | 40 | 89 | 31 | 138 | 49 | 2563 | 57 |
| MT WASHINGTON OBS | 107 | 36 | 67 | 23 | 116 | 31 | 165 | 40 | 179 | 38 | 181 | 39 | 198 | 42 | 168 | 38 | 87 | 23 | 136 | 39 | 99 | 34 | 104 | 37 | 1607 | 35 |
| NEW JERSEY
ATLANTIC CITY | 157 | 52 | 147 | 49 | 162 | 44 | 177 | 45 | 238 | 54 | 235 | 53 | 192 | 42 | 269 | 63 | 227 | 61 | 161 | 47 | 127 | 42 | 132 | 45 | 2224 | 50 |
| TRENTON U | 155 | 52 | 155 | 52 | 176 | 47 | 220 | 55 | 247 | 55 | 258 | 57 | 217 | 48 | 281 | 66 | 239 | 64 | 144 | 42 | 104 | 35 | 150 | 52 | 2345 | 53 |
| NEW MEXICO
ALBUQUERQUE | 246 | 79 | 231 | 75 | 249 | 67 | 320 | 82 | 345 | 80 | 318 | 73 | 337 | 76 | 314 | 75 | 291 | 78 | 246 | 70 | 245 | 79 | 230 | 75 | 3373 | 76 |
| ROSWELL | 244 | 77 | 234 | 76 | 277 | 75 | 332 | 85 | 342 | 79 | 305 | 71 | 295 | 67 | 311 | 75 | 227 | 61 | 228 | 65 | 248 | 79 | 212 | 69 | 3255 | 73 |
| NEW YORK
ALBANY | 160 | 54 | 140 | 47 | 179 | 48 | 254 | 63 | 233 | 51 | 246 | 54 | 274 | 59 | 329 | 77 | 193 | 52 | 121 | 35 | 86 | 29 | 143 | 51 | 2287 | 53 |
| BINGHAMTON | 139 | 47 | 150 | 51 | 157 | 42 | 240 | 60 | 286 | 63 | 293 | 64 | 280 | 60 | 318 | 74 | 180 | 48 | 137 | 40 | 68 | 23 | 65 | 23 | 2312 | 52 |
| BUFFALO | 92 | 31 | 161 | 54 | 159 | 43 | 261 | 65 | 236 | 52 | 291 | 63 | 277 | 60 | 335 | 78 | 205 | 55 | 122 | 35 | 70 | 24 | 55 | 20 | 2261 | 51 |
| NEW YORK U | 153 | 51 | 153 | 51 | 171 | 46 | 218 | 55 | 229 | 51 | 216 | 48 | 230 | 50 | 290 | 68 | 259 | 69 | 191 | 55 | 109 | 36 | 134 | 46 | 2352 | 51 |
| ROCHESTER | 129 | 44 | 166 | 56 | 182 | 49 | 279 | 69 | 280 | 62 | 290 | 63 | 259 | 56 | 314 | 73 | 243 | 65 | 139 | 41 | 63 | 21 | 61 | 22 | 2403 | 54 |
| SYRACUSE | 120 | 41 | 125 | 42 | 145 | 39 | 275 | 68 | 278 | 61 | 320 | 70 | 268 | 58 | 316 | 73 | 199 | 53 | 120 | 35 | 77 | 26 | 56 | 20 | 2298 | 52 |
| NORTH CAROLINA
ASHEVILLE | 201 | 64 | 233 | 76 | 248 | 67 | 268 | 68 | 288 | 66 | 292 | 67 | 318 | 72 | 202 | 48 | 214 | 57 | 142 | 41 | 226 | 73 | 209 | 69 | 2840 | 64 |
| CAPE MATTERAS R | 198 | 63 | 208 | 68 | 203 | 55 | 253 | 64 | 325 | 75 | 268 | 62 | 219 | 49 | 172 | 41 | 227 | 61 | 212 | 61 | 174 | 56 | 149 | 49 | 2606 | 59 |
| CHARLOTTE | 214 | 69 | 224 | 73 | 228 | 61 | 298 | 76 | 355 | 82 | 324 | 75 | 310 | 70 | 234 | 56 | 254 | 68 | 186 | 53 | 187 | 60 | 185 | 61 | 2998 | 67 |
| GREENSBORO | 175 | 56 | 191 | 63 | 200 | 54 | 267 | 68 | 336 | 77 | 312 | 71 | 262 | 59 | 236 | 56 | 250 | 67 | 161 | 46 | 169 | 55 | 186 | 62 | 2744 | 62 |
| RALEIGH | 220 | 71 | 224 | 74 | 214 | 58 | 279 | 71 | 328 | 75 | 315 | 72 | 259 | 58 | 278 | 68 | 278 | 75 | 192 | 55 | 220 | 71 | 199 | 66 | 3004 | 68 |
| WILMINGTON | 189 | 60 | 219 | 71 | 197 | 53 | 309 | 79 | 331 | 77 | 308 | 71 | 276 | 63 | 200 | 48 | 221 | 59 | 182 | 52 | 194 | 62 | 233 | 76 | 2858 | 64 |
| NORTH DAKOTA
BISMARCK | 113 | 40 | 160 | 55 | 256 | 69 | 266 | 65 | 304 | 65 | 406 | 86 | 415 | 87 | 401 | 91 | 283 | 75 | 193 | 57 | 81 | 30 | 139 | 52 | 3019 | 68 |
| FARGO | 137 | 49 | 215 | 75 | 285 | 77 | 200 | 49 | 158 | 34 | 334 | 70 | 423 | 88 | 341 | 78 | 243 | 64 | 147 | 44 | 77 | 27 | 123 | 46 | 2683 | 60 |
| WILLISTON | 91 | 33 | 174 | 61 | 237 | 64 | 171 | 42 | 266 | 57 | 392 | 82 | 383 | 79 | 397 | 90 | 247 | 65 | 187 | 56 | 74 | 26 | 168 | 64 | 2785 | 62 |
| OHIO
CINCINNATI OBS | 124 | 41 | 165 | 55 | 176 | 48 | 205 | 52 | 286 | 64 | 259 | 58 | 235 | 52 | 240 | 57 | 234 | 63 | 154 | 45 | 59 | 20 | 104 | 35 | 2242 | 50 |
| CLEVELAND | 83 | 28 | 151 | 51 | 142 | 38 | 232 | 58 | 316 | 70 | 329 | 72 | 297 | 65 | 304 | 71 | 233 | 62 | 162 | 47 | 80 | 27 | 97 | 34 | 2573 | 58 |
| COLUMBUS | 93 | 31 | 137 | 46 | 148 | 40 | 220 | 55 | 261 | 58 | 321 | 51 | 284 | 45 | 262 | 62 | 239 | 64 | 148 | 43 | 47 | 16 | 49 | 24 | 2060 | 46 |
| DAYTON | 129 | 43 | 153 | 51 | 167 | 45 | 240 | 60 | 331 | 74 | 328 | 73 | 257 | 57 | 279 | 66 | 245 | 66 | 193 | 56 | 91 | 30 | 88 | 30 | 2502 | 56 |
| TOLEDO | 129 | 43 | 166 | 56 | 157 | 42 | 173 | 43 | 234 | 52 | 298 | 66 | 289 | 63 | 314 | 73 | 199 | 53 | 168 | 49 | 56 | | | | | |

YEAR 1970

Data from airport unless otherwise specified.
"U" indicates Urban, "R" indicates Rural, sites.

ANNUAL CLIMATOLOGICAL DATA ENGLISH UNITS

TABLE 1

| State and Station | Temperature | | | | Precipitation | | | | Relative Humidity | | | | Wind | | | | Number of days | | | | Sunrise to sunset | | | | Max temp | | Min temp | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | Averages | | Extremes | | Cooling degree days | | Base 65 | | Total | | Greatest in 24 hours | | Date (s) | | % | | Average speed | | Direction | | Fastest mile | | Precipitation | | Snow | | Heavy fog | | Thunderstorms | | Show | | Precipitation | | Sunrise to sunset | | Clear, 0-3 | | Partly cloudy, 0-4 | | Cloudy, 0-8 | | Tennis | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Daily maximum | Daily minimum | Annual | Date | Lowest | Date | Base 65 | Base 65 | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In 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| In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In | In |

See reference notes at end of table

YEAR 1970

Data from airport unless otherwise specified.
"U" indicates Urban, "R" indicates Rural. sites.

100

See reference notes at end of table

ANNUAL CLIMATOLOGICAL DATA ENGLISH UNITS

YEAR 200

| State and Station | Temperature | | | | Precipitation | | | | Relative humidity | | | | Wind | | | | Number of days | | | | | | | | | | | | |
|-------------------|------------------|------------------|----------|---------|----------------------------------|----------------------------------|-------|----------------------|-------------------|-------|----------------------|-------------|-------------|----------|---------------|-----------------|----------------|-------|--------------|--|--|-----------------------------------|---------------------------|---------------|-----------|-------------------|-------------------|----------|--------|
| | Averages | | Extremes | | Heating degree days
Base 65°F | Cooling degree days
Base 65°F | Total | Greatest in 24 hours | Date (s) | Total | Greatest in 24 hours | Snow*
in | Snow*
in | Date (s) | Average speed | Resultant speed | Direction | Speed | Fastest mile | Average sky cover
sunrise to sunset | Clear, 0-0.3
0.4-0.7
Partly cloudy,
0.8-1.0
Cloudy | Precipitation
0.1 inch or more | Snow*
0.1 inch or more | Thunderstorms | Heavy fog | 90°F and
above | 32°F and
below | Min temp | |
| | Daily
maximum | Daily
minimum | Annual | Highest | | | | | | | | | | | | | | | | | | | | | | | | | Lowest |
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| CALIFORNIA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | </ |
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See reference notes at end of table.

ANNUAL CLIMATOLOGICAL DATA ENGLISH UNITS

YEAR 1976

| State and Station | Temperature | | | | Precipitation | | | | Relative humidity | | | | Wind | | | | Number of days | | | | | | | | | | | |
|-------------------|---------------|----------------|----------|-----|---------------|--------|--------|-------|-------------------|-------|-----------|-----|---------------|------|-----------------|------|-------------------|------------|--------------------|-------------|--------------------------------|----------------------|---------------|-----------|----------------|----------------|----------------|---------------|
| | Averages | | Extremes | | Total | | Snow** | | 1000m EST | | 7000m EST | | Average speed | | Resultant speed | | Sunrise to sunset | Clear, 0-3 | Partly cloudy, 0-4 | Cloudy 0-10 | Precipitation 0.1 inch or more | Snow 10 inch or more | Thunderstorms | Heavy fog | Max temp | | Min temp | |
| | Daily maximum | Annual minimum | °F | °F | °F | °F | °F | °F | % | % | % | % | Mph | Mph | Fastest mile | | | | | | | | | | 90°F and above | 32°F and below | 32°F and below | 0°F and below |
| | | | | | | | | | | | | | | | Date | Date | | | | | | | | | | | | |
| ALABAMA | 81.9 | 63.8 | 72.9 | 94 | AUG 14 | JAN 32 | 504 | 3488 | 58.84 | 7.92 | 25-26 | MAR | -0 | -0 | 8.1 | 2.1 | 8.1 | 71 | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | |
| ALASKA | 79.1 | 58.7 | 68.9 | 99 | AUG 14 | JAN 32 | 504 | 3488 | 58.84 | 7.92 | 25-26 | MAR | -0 | -0 | 8.1 | 2.1 | 8.1 | 71 | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | |
| ARIZONA | 81.3 | 72.2 | 78.6 | 90 | AUG 15 | JAN 33 | 505 | 3489 | 58.85 | 7.93 | 25-27 | MAR | -0 | -0 | 8.1 | 2.1 | 8.1 | 71 | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | |
| ARKANSAS | 80.2 | 62.0 | 71.1 | 97 | AUG 15 | JAN 33 | 505 | 3489 | 58.85 | 7.93 | 25-27 | MAR | -0 | -0 | 8.1 | 2.1 | 8.1 | 71 | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | |
| CALIFORNIA | 82.1 | 69.4 | 71.8 | 96 | AUG 15 | JAN 33 | 505 | 3489 | 58.85 | 7.93 | 25-27 | MAR | -0 | -0 | 8.1 | 2.1 | 8.1 | 71 | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | |
| COLORADO | 83.4 | 62.7 | 72.6 | 97 | AUG 15 | JAN 33 | 505 | 3489 | 58.85 | 7.93 | 25-27 | MAR | -0 | -0 | 8.1 | 2.1 | 8.1 | 71 | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | |
| CONNECTICUT | 76.7 | 59.8 | 68.1 | 98 | AUG 19 | JAN 34 | 1863 | 2976 | 67.96 | 4.88 | 2-3 | JUN | -0 | -0 | 8.1 | 2.1 | 8.1 | 71 | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | | |
| DELAWARE | 78.8 | 63.6 | 68.1 | 98 | AUG 19 | JAN 34 | 1863 | 2976 | 67.96 | 4.88 | 2-3 | JUN | -0 | -0 | 8.1 | 2.1 | 8.1 | 71 | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | | |
| FLORIDA | 81.4 | 61.1 | 71.2 | 97 | AUG 23 | JAN 34 | 1893 | 3263 | 38.27 | 2.79 | 8-9 | MAR | -0 | -0 | 8.1 | 2.1 | 8.1 | 71 | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | | |
| GEORGIA | 82.4 | 65.6 | 73.8 | 97 | AUG 29 | JAN 34 | 415 | 3741 | 55.28 | 4.88 | 25-26 | MAR | -0 | -0 | 8.1 | 2.1 | 8.1 | 71 | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | | |
| ILLINOIS | 72.4 | 51.0 | 61.7 | 91 | JUL 4 | JAN 32 | 3026 | 1932 | 41.41 | 4.21 | 2-3 | SEP | 2.4 | 1.7 | 23 | 78 | 84 | 55 | 64 | 7.1 | 1.3 | 27 | 25 | 19 | 2 | 4 | 57 | |
| INDIANA | 71.9 | 53.2 | 61.6 | 98 | JUL 2 | JAN 32 | 3023 | 1876 | 42.25 | 5.08 | 3-20 | MAR | -0 | -0 | 8.1 | 2.1 | 8.1 | 71 | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | | |
| IOWA | 78.2 | 49.7 | 64.5 | 102 | JAN 5 | JAN 9 | 2815 | 2024 | 39.99 | 3.10 | 30-31 | DEC | 1.5 | 1.5 | 23 | 76 | 80 | 54 | 61 | 7.8 | 1.3 | 29 | 38 | 21 | 6.0 | 67 | | |
| KANSAS | 75.8 | 53.6 | 64.5 | 101 | JAN 3 | JAN 7 | 2433 | 2424 | 34.21 | 4.41 | 15-16 | DEC | 1 | 1 | 30 | 78 | 86 | 55 | 68 | 6.0 | -6 | 34 | 35 | 48 | 3 | 63 | | |
| KENTUCKY | 77.4 | 52.8 | 65.4 | 104 | JUL 9 | JAN 9 | 2292 | 2543 | 46.41 | 5.35 | 3-20 | NOV | 1 | 1 | 30 | 84 | 88 | 52 | 63 | 7.1 | -8 | 28 | 38 | 2 | 52 | 6 | | |
| LOUISIANA | 72.5 | 48.1 | 60.3 | 101 | AUG -2 | JAN 9 | 3413 | 1809 | 43.26 | 2.94 | 19-20 | MAR | 6.4 | 3.7 | 6 | 83 | 85 | 53 | 68 | 7.7 | 1.1 | 23 | 42 | NW | 27 | 6 | 81 | |
| MAINE | 77.0 | 54.7 | 66.4 | 97 | JUN 13 | JAN 9 | 2063 | 2531 | 53.84 | 5.83 | 8-9 | AUG | -0 | -0 | -0 | 83 | 85 | 53 | 68 | 7.7 | 1.1 | 23 | 42 | NW | 27 | 6 | 81 | |
| MARYLAND | 81.4 | 65.4 | 71.1 | 89 | OCT 1 | FEB 1 | 0 | 3116 | 153.98 | 9.65 | 15-26 | AUG | -0 | -0 | -0 | 80 | 84 | 76 | 67 | 6.4 | -2 | 15 | 23 | NW | 15 | 0 | 0 | |
| MASSACHUSETTS | 84.9 | 71.4 | 78.2 | 92 | AUG 10 | AUG 10 | 4913 | 15.49 | 1.58 | 27-28 | NOV | -0 | -0 | -0 | 68 | 73 | 69 | 54 | 13.2 | 10.6 | 5 | 40 | NE | 25 | 4 | 0 | 0 | |
| MICHIGAN | 84.3 | 67.2 | 75.8 | 92 | JAN 13 | JAN 13 | 3 | 4041 | 18.61 | 2.40 | 26-27 | JAN | -0 | -0 | -0 | 77 | 80 | 76 | 58 | 12.7 | 10.3 | 5 | 35 | SW | 14 | 0 | 0 | |
| MINNESOTA | 81.5 | 71.4 | 76.6 | 87 | FEB 10 | FEB 10 | 0 | 4289 | 39.18 | 4.17 | 25-26 | DEC | -0 | -0 | -0 | 75 | 78 | 75 | 66 | 12.8 | 10.0 | 5 | 40 | SW | 13 | 0 | 0 | |
| MISSISSIPPI | 81.0 | 60.8 | 69.7 | 90 | AUG 1 | JAN 3 | 4088 | 1901 | 49.98 | 3.86 | 4-5 | AUG | 18.5 | 9.8 | 16-17 | 58 | 65 | 48 | 39 | 10.2 | 1.1 | 11 | 46 | NW | 19 | 4 | 115 | |
| MISSOURI | 81.0 | 60.8 | 69.7 | 90 | AUG 1 | JAN 3 | 4088 | 1901 | 49.98 | 3.86 | 4-5 | AUG | 18.5 | 9.8 | 16-17 | 58 | 65 | 48 | 39 | 10.2 | 1.1 | 11 | 46 | NW | 19 | 4 | 115 | |
| MONTANA | 80.4 | 42.4 | 54.9 | 90 | JUL 2 | JAN 3 | 6178 | 1163 | 46.09 | 2.97 | 20-21 | MAY | 57.5 | 14.3 | 25-26 | 71 | 75 | 59 | 64 | 11.0 | 2.6 | -22 | 39 | NW | 13 | 6 | 9 | |
| NEBRASKA | 80.2 | 39.8 | 49.4 | 98 | JUL 2 | JAN 3 | 6571 | 1066 | 51.72 | 3.68 | 12-13 | APR | 38.7 | 8.2 | 1-2 | 77 | 80 | 60 | 64 | 10.5 | 2.4 | 23 | 56 | SW | 9 | 5 | 10 | |
| NEVADA | 80.3 | 40.1 | 49.4 | 98 | JUL 2 | JAN 3 | 6388 | 972 | 44.72 | 3.30 | 21-22 | SEP | 29.5 | 6.0 | 25-26 | 78 | 82 | 61 | 65 | 10.3 | 1.8 | 22 | 46 | SW | 10 | 1 | 10 | |
| NEW HAMPSHIRE | 80.9 | 38.2 | 47.6 | 95 | JUL -22 | JAN 21 | 7045 | 836 | 38.76 | 2.40 | 2-3 | FEB | 29.9 | 6.7 | 1-2 | 81 | 84 | 62 | 65 | 10.6 | 1.8 | 24 | 46 | 12 | 19 | 5 | 10 | |
| NEW JERSEY | 82.4 | 42.7 | 52.4 | 100 | JUL 2 | JAN 2 | 5706 | 1232 | 38.25 | 3.90 | 29-30 | APR | 17.2 | 2.5 | 13-14 | 79 | 82 | 61 | 65 | 11.7 | 2.6 | 21 | 50 | NW | 14 | 6 | 10 | |

2000

See reference notes at end of table.

ANNUAL CLIMATOLOGICAL DATA ENGLISH UNITS

TABLE 10-17

| State and Station | Temperature | | | Heating degree days
Base 65° | Cooling degree days
Base 65° | Precipitation | | | Relative humidity | | | Wind | | | Fastest mile | | | Sunrise to sunset | | | Number of days | | | Max temp | | | | | | | | | | | |
|-------------------|---------------|---------------|----------|---------------------------------|---------------------------------|---------------|----------------------|----------|-------------------|----------------------|----------|-----------|-----------|-----------|---------------|-----------------|---------------------|-------------------|-----|-----------|----------------|--------------|------------------------|-----------------|---------------------------|----------------------------------|-----------|----------------|----------------|---------------|--------|--------|--------|----|---|
| | Averages | | Extremes | | | Total | Greatest in 24 hours | Date (s) | Total | Greatest in 24 hours | Date (s) | 100am EST | 700am EST | 700pm EST | Average speed | Resultant speed | Resultant direction | Mph | Mph | Direction | Date | Clear, 0-0.3 | Partly cloudy, 0.4-0.7 | Cloudy, 0.8-1.0 | Snow *
10 inch or more | Thunderstorms
10 inch or more | Heavy fog | 90°F and above | 32°F and below | 0°F and below | | | | | |
| | Daily maximum | Daily minimum | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Annual | Highst | Lowest | | |
| | | ° | ° | | | ° | ° | ° | in | in | in | in | in | % | % | % | Mph | Mph | | | | | | | | | | | | | | | | | |
| MICHIGAN | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ANN ARBOR | 53.2 | 51.9 | 47.6 | 92 | JUL 26 | 84.12 | 27.12 | 1.58 | 13-14 | JUL 116.8 | 12.4 | DEC 3-4 | 82 | 84 | 62 | 69 | 7.7 | 1.6 | 25 | 44 | W | NOV 21 | 6.8 | 39 | 37 | 5 | 80 | 178 | 26 | | | | | | |
| DETROIT | 57.5 | 42.0 | 49.8 | 94 | JUN 10 | 64.61 | 10.16 | | | | | | 72 | 75 | 58 | 61 | 9.8 | 2.8 | 26 | 37 | 7-9 | JUL 3 | | 22 | 36 | 9 | 14 | 63 | 124 | 7 | | | | | |
| FLINT | 58.1 | 59.4 | 60.8 | 94 | JUN 10 | 66.20 | 9.75 | 1.87 | 19 | 42.7 | 4.8 | FEB 9 | 78 | 81 | 61 | 65 | 10.6 | 2.9 | 26 | 48 | W | JUL 3 | 6.9 | 64 | 109 | 192 | 137 | 17 | 38 | 25 | 8 | 57 | 133 | 12 | |
| LANSING | 55.3 | 57.8 | 60.6 | 89 | JUL 1 | 71.61 | 5.65 | 2.96 | 10 | 64.1 | 9.7 | 10-11 | 80 | 83 | 63 | 68 | 10.0 | 3.1 | 23 | 32 | 27 | NOV 3 | 7.0 | 65 | 108 | 194 | 137 | 18 | 34 | 18 | 0 | 65 | 134 | 18 | |
| WARREN | 56.3 | 57.5 | 60.8 | 91 | JUN 2 | 72.05 | 6.73 | 4.51 | 3-21 | 97.9 | 15.1 | 10-11 | 80 | 82 | 64 | 68 | 10.5 | 2.7 | 23 | 44 | W | JUN 14 | 7.0 | 66 | 98 | 201 | 151 | 27 | 44 | 28 | 8 | 67 | 144 | 15 | |
| FLINT | 52.0 | 52.7 | 54.1 | 91 | JUN 10 | 84.37 | 31.82 | 3.66 | 2-3 | 104.6 | 11.7 | 26 | 84 | 85 | 65 | 70 | 8.9 | 1.9 | 29 | 40 | NOV 23 | 6.9 | 70 | 94 | 201 | 146 | 35 | 50 | 24 | 1 | 86 | 170 | 16 | | |
| LANSING | 55.9 | 56.7 | 60.5 | 92 | JUL 1 | 72.57 | 5.66 | 3.25 | 1.62 | 10-11 | 80.1 | 17.0 | 78 | 78 | 65 | 69 | 10.3 | 3.4 | 24 | 34 | NOV 1 | 6.8 | 67 | 102 | 199 | 146 | 19 | 43 | 25 | 4 | 66 | 146 | 18 | | |
| MUSKEGON | 57.1 | 57.3 | 62.0 | 94 | AUG 4 | 84.91 | 4.40 | 30.63 | 1.98 | 30-31 | 100.4 | 10.0 | 26-27 | 38 | 38 | 22 | 7.0 | 3.8 | 38 | 38 | NOV 22 | 7.0 | 64 | 105 | 196 | 159 | 12 | 8 | 89 | 156 | 13 | | | | |
| FLINT | 55.4 | 58.8 | 67.1 | 91 | AUG 4 | 70.59 | 6.26 | 31.21 | 2.21 | 14-15 | 161.2 | 11.0 | 78 | 80 | 64 | 68 | 11.1 | 1.9 | 24 | 46 | 21 | APR 21 | 6.9 | 69 | 98 | 198 | 152 | 41 | 42 | 20 | 2 | 68 | 143 | 5 | |
| FLINT | 48.7 | 59.1 | 68.9 | 88 | 13 | 95.46 | 1.64 | 39.16 | 5.10 | 30-31 | 98.5 | 10.0 | 28-29 | 80 | 80 | 65 | 70 | 8.8 | 4.1 | 43 | NOV 29 | 7.0 | 64 | 96 | 205 | 154 | 37 | 43 | 44 | 0 | 106 | 178 | 62 | | |
| MINNESOTA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ST. PAUL | 47.4 | 58.1 | 67.8 | 92 | 14 | 101.60 | 3.44 | 27.47 | 2.05 | 18-19 | 80.6 | 12.0 | DEC 3 | 76 | 80 | 63 | 63 | 11.5 | 1.5 | 28 | 54 | APR 8 | 5.6 | 78 | 106 | 181 | 144 | 25 | 43 | 45 | 4 | 115 | 181 | 88 | |
| MINNEAPOLIS | 46.8 | 56.8 | 65.8 | 94 | JUN 10 | 109.29 | 19.3 | 22.84 | 1.20 | NOV | 90.5 | 6.8 | 21-22 | 77 | 81 | 64 | 63 | 9.4 | 1.4 | 26 | 44 | APR 12 | 6.7 | 83 | 89 | 193 | 131 | 22 | 33 | 34 | 9 | 115 | 186 | 89 | |
| MINNEAPOLIS | 53.6 | 55.3 | 64.3 | 93 | JUN 29 | 83.50 | 9.20 | 30.53 | 1.92 | 8-9 | 35.8 | 5.1 | 25-26 | 74 | 78 | 61 | 64 | 10.3 | 1.5 | 26 | 45 | NOV 29 | 6.1 | 106 | 88 | 171 | 129 | 12 | 43 | 11 | 26 | 89 | 155 | 14 | |
| MINNEAPOLIS | 57.0 | 57.5 | 64.3 | 94 | JUN 29 | 94.82 | 6.04 | 33.77 | 2.48 | 9-10 | 47.8 | 7.0 | 19-20 | 79 | 81 | 66 | 67 | 13.2 | 3.2 | 24 | 43 | NOV 22 | 6.2 | 96 | 156 | 163 | 126 | 14 | 42 | 14 | 4 | 80 | 154 | 43 | |
| MINNEAPOLIS | 51.5 | 52.7 | 61.1 | 94 | JUN 28 | 92.46 | 8.56 | 25.15 | 1.88 | 18 | 26.7 | 3.6 | 5 | 80 | 59 | 60 | | | | | | NOV 22 | 6.1 | 115 | 87 | 163 | 111 | 7 | 15 | 99 | 175 | 52 | | | |
| MINNEAPOLIS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MINNEAPOLIS | 76.2 | 52.8 | 64.9 | 92 | JUL 1 | 75.32 | 24.74 | 48.36 | 3.50 | 12-13 | 1 | 13 | 87 | 92 | 60 | 69 | 7.3 | 1.1 | 17 | 36 | S | JUL 20 | 6.1 | 93 | 146 | 156 | 111 | 0 | 96 | 26 | 94 | 1 | 57 | 0 | 0 |
| MINNEAPOLIS | 76.1 | 51.5 | 63.8 | 93 | JUL 1 | 25.92 | 22.77 | 51.79 | 6.94 | 18-19 | 1 | 22 | 88 | 91 | 56 | 67 | 5.9 | 4.6 | 24 | 33 | 28 | APR 28 | 6.3 | 78 | 120 | 167 | 158 | 0 | 50 | 43 | 97 | 0 | 56 | 0 | |
| MINNEAPOLIS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MINNEAPOLIS | 63.4 | 62.3 | 63.9 | 93 | JUL 1 | 52.25 | 12.88 | 43.77 | 4.21 | 14-15 | 15.4 | 2.9 | 11-12 | 77 | 82 | 61 | 63 | 10.9 | 2.0 | 20 | 52 | MAY 10 | 6.3 | 91 | 91 | 183 | 123 | 8 | 58 | 31 | 27 | 28 | 110 | 8 | |
| MINNEAPOLIS | 66.9 | 67.3 | 67.1 | 106 | JUL 1 | 46.85 | 19.15 | 36.12 | 5.33 | 21-22 | 13.9 | 4.6 | 1 | 70 | 76 | 55 | 54 | 10.2 | 1.8 | 20 | 40 | SEP 27 | 5.8 | 5.8 | 117 | 92 | 156 | 87 | 5 | 48 | 4 | 56 | 21 | 93 | 5 |
| MINNEAPOLIS | 67.6 | 64.7 | 64.7 | 93 | JUL 1 | 49.20 | 18.07 | 36.11 | | | | | 70 | 76 | 53 | 53 | 9.1 | 9.1 | 21 | 46 | 28 | MAY 27 | 6.4 | 124 | 159 | 132 | 1 | 1 | 69 | 20 | 112 | 6 | 6 | 6 | |
| MINNEAPOLIS | 65.3 | 64.8 | 65.1 | 103 | JUL 1 | 50.26 | 15.19 | 36.20 | 2.33 | 30 | 12.7 | 2.7 | 11-12 | 79 | 85 | 61 | 64 | 9.6 | 2.2 | 22 | 42 | SEP 29 | 6.4 | 87 | 103 | 175 | 114 | 5 | 49 | 14 | 42 | 21 | 111 | 5 | |
| MINNEAPOLIS | 65.7 | 63.4 | 64.6 | 98 | JUL 1 | 50.72 | 14.92 | 41.84 | 3.85 | 27-28 | 32.6 | 15.7 | 16 | 86 | 84 | 59 | 64 | 10.3 | 3.2 | 19 | 43 | JUN 24 | 5.7 | 113 | 100 | 152 | 112 | 8 | 56 | 29 | 47 | 19 | 118 | 4 | |
| MINNEAPOLIS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MINNEAPOLIS | 57.0 | 54.2 | 65.7 | 93 | JUL 1 | 76.52 | 12.2 | 16.09 | 1.43 | 27-28 | 68.8 | 12.3 | 27-28 | 61 | 68 | 53 | 47 | 11.6 | 4.8 | 27 | 49 | MAY 17 | 6.2 | 91 | 134 | 170 | 98 | 21 | 19 | 23 | 36 | 46 | 176 | 18 | |
| MINNEAPOLIS | 52.0 | 52.6 | 61.1 | 107 | JUL 1 | 92.52 | 6.55 | 10.25 | 1.08 | 12-13 | 33.7 | 8.4 | 28-29 | 68 | 75 | 57 | 52 | 11.2 | 1.5 | 1 | 64 | APR 17 | 6.3 | 86 | 127 | 172 | 127 | 8 | 24 | 9 | 35 | 87 | 194 | 45 | |
| MINNEAPOLIS | 55.7 | 52.7 | 64.1 | 91 | JUL 1 | 80.93 | 9.80 | 15.34 | 1.33 | 10-11 | 73.4 | 7.7 | 28 | 59 | 64 | 49 | 44 | 12.0 | 6.8 | 24 | 58 | JUN 27 | 6.3 | 92 | 99 | 174 | 111 | 35 | 24 | 32 | 31 | 52 | 183 | 12 | |
| MINNEAPOLIS | 53.8 | 57.4 | 64.6 | 106 | JUL 1 | 93.07 | 5.12 | 11.84 | 2.23 | 17-18 | 93.5 | 5.2 | 16-17 | 68 | 75 | 54 | 48 | 10.4 | 3.7 | 26 | 44 | JUN 27 | 6.4 | 91 | 183 | 42 | 16 | 21 | 19 | 38 | 74 | 197 | 50 | | |
| MINNEAPOLIS | 54.7 | 57.5 | 62.1 | 94 | JUL 1 | 85.19 | 12.0 | 9.74 | 1.07 | 27-28 | 49.1 | 6.4 | FEB 6 | 63 | 72 | 53 | 44 | 7.6 | 4.2 | 28 | 46 | JUN 27 | 6.4 | 89 | 179 | 98 | 17 | 29 | 3 | 24 | 44 | 213 | 17 | | |
| MINNEAPOLIS | 54.3 | 59.7 | 62.5 | 97 | JUL 1 | 84.85 | 1.94 | 17.37 | 7.8 | 10-11 | 87.1 | 7.6 | 26-27 | 77 | 83 | 61 | 53 | 6.6 | 1.5 | 19 | 32 | JUN 14 | 6.8 | 88 | 71 | 206 | 140 | 27 | 25 | 35 | 23 | 52 | 287 | 15 | |
| MINNEAPOLIS | 56.4 | 53.3 | 64.7 | 104 | JUL 1 | 82.75 | 9.80 | 15.18 | | | 41.3 | | JAN 10 | 69 | 76 | 57 | 53 | 10.5 | 2.7 | 31 | | FEB 3 | 6.8 | 119 | 9 | 30 | 4 | 54 | 66 | 191 | 31 | 4 | 4 | 4 | |
| MINNEAPOLIS | 56.1 | 52.3 | 64.1 | 100 | JUL 1 | 78.40 | 3.31 | 15.08 | 1.05 | 26-27 | 63.9 | 6.4 | 18 | 74 | 85 | 64 | 53 | 6.0 | 1.4 | 31 | 42 | SEP 3 | 6.8 | 83 | 73 | 209 | 132 | 21 | 21 | 26 | 37 | 43 | 281 | 4 | |

See reference notes at end of table

ANNUAL CLIMATOLOGICAL DATA ENGLISH UNITS

YEAR 1971

| State and Station | Temperature | | | | Heating degree days
Base 65° | Cooling degree days
Base 65° | Precipitation | | | | Relative humidity | | | Wind | | | Number of days | | | | | | | | | | | | | | | | | | | | | | |
|---------------------|---------------|---------------|----------|---------|---------------------------------|---------------------------------|---------------|-------------------------------|----------|-------------|-------------------------------|-------------|----------|-----------|-----------|-----------|----------------------|------------------------|---------------------|--------------|-----------|---------------------|------|--------------------------|---------------------------|-------------------------|-----------------|----------------------------------|-------------------------|---------------|-----------|---------------|---------------|----------|------|--------|------|---|---|
| | Averages | | Extremes | | | | Total
in | Greatest in
24 hours
in | Date (s) | Total
in | Greatest in
24 hours
in | Snow*
in | Date (s) | 100am EST | 100pm EST | 700pm EST | Average speed
Mph | Resultant speed
Mph | Resultant direction | Speed
Mph | Direction | Fastest mile
APR | Date | Average sky cover
APR | Sunrise to sunset
0-03 | Partly cloudy,
04-07 | Cloudy
08-10 | Precipitation
10 inch or more | Snow
10 inch or more | Thunderstorms | Heavy fog | 90° and above | 32° and below | Min temp | | | | | |
| | Daily maximum | Daily minimum | Annual | Highest | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Date | Lowest | Date | | |
| NEBRASKA | 63.2 | 38.1 | 50.7 | 107 | JAN 8 | -10 | JAN 8 | AUG 1-2 | 18.31 | 2.68 | 1-2 | 8.3 | 3.0 | 13-14 | FEB 9 | 1 | DEC 27 | 46 | 26 | 1.4 | 26 | 46 | 27 | 1 | 5.5 | 12.4 | 96 | 145 | 82 | 2 | 50 | 23 | 58 | 35 | 166 | 13 | 0 | 0 | |
| GRAND ISLAND | 62.8 | 42.2 | 52.5 | 103 | JUL 2 | -11 | JAN 8 | SEP 9 | 15.46 | 2.13 | 13-14 | 17.8 | 6.6 | 9 | OCT 9 | 1 | DEC 27 | 50 | 50 | 50 | 50 | 50 | 50 | 7 | 5.7 | 12.2 | 97 | 146 | 87 | 3 | 49 | 33 | 133 | 10 | 0 | 0 | | | |
| LINCOLN U | 59.3 | 36.7 | 48.0 | 104 | AUG 24 | -24 | JAN 19 | SEP 2 | 11.60 | 3.88 | JUN 3 | 23.0 | 9.3 | 9-10 | MAR 9 | 2 | DEC 27 | 57 | 57 | 57 | 57 | 57 | 57 | 10 | 5.6 | 1.29 | 93 | 143 | 75 | 6 | 40 | 54 | 174 | 17 | 0 | 0 | | | |
| NORFOLK | 63.1 | 33.3 | 48.2 | 103 | JUN 26 | -10 | JAN 9 | AUG 16 | 16.21 | 3.14 | 11-12 | 40.8 | 9.2 | 18-19 | FEB 11 | 30 | DEC 27 | 53 | 53 | 53 | 53 | 53 | 53 | 11 | 5.3 | 1.32 | 107 | 126 | 79 | 11 | 44 | 14 | 55 | 35 | 195 | 11 | 0 | 0 | |
| OMAHA | 62.9 | 40.2 | 51.6 | 102 | JUL 15 | -15 | JAN 20 | AUG 1-2 | 27.25 | 2.66 | 1-2 | 14.1 | 4.5 | 18-19 | MAR 10 | 2 | DEC 27 | 47 | 47 | 47 | 47 | 47 | 47 | 10 | 5.7 | 1.16 | 104 | 145 | 99 | 5 | 47 | 10 | 49 | 32 | 143 | 18 | 0 | 0 | |
| SCOTT'S BLUFF | 60.3 | 32.7 | 46.5 | 100 | JUL 17 | -10 | JAN 8 | AUG 11-12 | 11.99 | 1.82 | 11-12 | 52.4 | 9.9 | 17-18 | NOV 10 | 30 | DEC 27 | 36 | 36 | 36 | 36 | 36 | 36 | 10 | 5.6 | 1.21 | 107 | 137 | 77 | 16 | 32 | 8 | 42 | 34 | 193 | 15 | 0 | 0 | |
| VALENTINE | 50.4 | 32.8 | 46.6 | 106 | JUN 26 | -19 | JAN 9 | AUG 13-12 | 13.82 | 1.23 | 11-12 | 38.3 | 8.2 | 12 | DEC 12 | 12 | DEC 27 | 46 | 46 | 46 | 46 | 46 | 46 | 26 | 5.3 | 1.33 | 99 | 133 | 67 | 8 | 55 | 52 | 192 | 29 | 0 | 0 | | | |
| NEVADA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FLCO | 61.1 | 28.9 | 45.0 | 98 | AUG 12 | -16 | JAN 6 | AUG 13 | 14.56 | 4.13 | 27 | 36.5 | 5.6 | 16 | DEC 16 | 16 | DEC 27 | 35 | 35 | 35 | 35 | 35 | 35 | 26 | 5.6 | 1.21 | 97 | 147 | 92 | 12 | 23 | 4 | 46 | 20 | 227 | 14 | 0 | 0 | |
| FLY | 60.2 | 27.6 | 43.9 | 94 | AUG 11 | -12 | JAN 25 | DEC 10 | 10.69 | 1.04 | 16-17 | 51.5 | 12.7 | 16-17 | DEC 10 | 10 | DEC 27 | 48 | 48 | 48 | 48 | 48 | 48 | 13 | 5.2 | 1.13 | 139 | 113 | 85 | 12 | 43 | 1 | 21 | 16 | 238 | 14 | 0 | 0 | |
| LAS VEGAS | 78.8 | 52.7 | 65.8 | 115 | AUG 14 | DEC 14 | JAN 20 | AUG 19 | 25.44 | 4.29 | 9-10 | T | T | T | DEC 19 | 19 | DEC 27 | 53 | 53 | 53 | 53 | 53 | 53 | 16 | 3.7 | 20.2 | 84 | 79 | 22 | 0 | 17 | 0 | 122 | 0 | 27 | 0 | | | |
| RENO | 68.7 | 33.3 | 51.0 | 103 | JUL 10 | -9 | JAN 23 | AUG 15-16 | 6.95 | 7.6 | 15-16 | 20.5 | 9.4 | 16 | DEC 16 | 16 | DEC 27 | 43 | 43 | 43 | 43 | 43 | 43 | 16 | 4.8 | 1.58 | 81 | 126 | 58 | 5 | 9 | 10 | 80 | 11 | 181 | 0 | 0 | 0 | |
| WINNEMUCCA | 65.9 | 31.4 | 48.7 | 103 | JUL 19 | -9 | JAN 3 | AUG 26 | 9.09 | 6.8 | 26 | 17.3 | 6.8 | 26 | APR 26 | 26 | DEC 27 | 51 | 51 | 51 | 51 | 51 | 51 | 17 | 5.6 | 1.28 | 91 | 146 | 73 | 5 | 21 | 1 | 71 | 12 | 202 | 6 | 0 | 0 | |
| NEW HAMPSHIRE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CONCORD | 57.0 | 33.2 | 45.1 | 96 | AUG 16 | -22 | JAN 20 | FEB 3-4 | 34.67 | 2.05 | 3-4 | 65.9 | 8.6 | 17 | DEC 17 | 17 | DEC 27 | 42 | 42 | 42 | 42 | 42 | 42 | 15 | 6.3 | 9.5 | 114 | 156 | 113 | 20 | 21 | 37 | 17 | 66 | 161 | 29 | 0 | 0 | |
| MT WASHINGTON OBS | 34.0 | 19.7 | 26.9 | 67 | JUL 28 | -33 | JAN 21 | FEB 10-11 | 112.99 | 10.38 | 10-11 | 385.1 | 27.0 | 10-11 | FEB 10 | 10 | DEC 27 | 151 | 151 | 151 | 151 | 151 | 151 | 3 | 8.0 | 33 | 74 | 258 | 208 | 83 | 19 | 313 | 0 | 165 | 235 | 76 | 0 | 0 | |
| NEW JERSEY | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ATLANTIC CITY | 62.2 | 44.1 | 53.2 | 93 | SEP 23 | 3 | JAN 23 | APR 21-22 | 38.96 | 2.11 | 21-22 | 17.6 | 5.2 | 6-7 | OCT 6 | 6 | DEC 27 | 44 | 44 | 44 | 44 | 44 | 44 | 19 | 6.2 | 1.07 | 90 | 168 | 110 | 7 | 39 | 53 | 13 | 15 | 107 | 0 | 0 | 0 | |
| NEWARK | 62.1 | 46.6 | 54.4 | 94 | SEP 23 | 2 | JAN 9 | APR 1-2 | 34.39 | 1.95 | 1-2 | 21.8 | 4.1 | 16-17 | FEB 16 | 16 | DEC 27 | 38 | 38 | 38 | 38 | 38 | 38 | 28 | 6.2 | 9.4 | 105 | 166 | 117 | 7 | 24 | 8 | 22 | 25 | 94 | 0 | 0 | 0 | |
| TRENTON U | 61.6 | 46.1 | 53.9 | 94 | SEP 23 | 4 | JAN 9 | OCT 21-22 | 33.83 | 2.24 | 21-22 | 18.3 | 4.3 | 6-7 | JAN 6 | 6 | DEC 27 | 41 | 41 | 41 | 41 | 41 | 41 | 5 | 6.1 | 9.7 | 109 | 159 | 119 | 8 | 18 | 31 | 92 | 0 | 0 | 0 | 0 | | |
| NEW MEXICO | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ALBUQUERQUE | 70.1 | 41.8 | 56.0 | 100 | JUL 14 | 3 | JAN 7 | AUG 8 | 6.28 | 9.8 | 8 | 7.0 | 2.7 | 21 | FEB 21 | 21 | DEC 27 | 54 | 54 | 54 | 54 | 54 | 54 | 8 | 4.7 | 1.62 | 90 | 113 | 54 | 3 | 41 | 7 | 73 | 3 | 138 | 0 | 0 | 0 | |
| LAYTON | 66.8 | 37.6 | 52.2 | 97 | JUL 10 | -3 | JAN 7 | APR 11 | 10.36 | 1.10 | 11 | 25.6 | 4.9 | 30-31 | MAR 30 | 30 | DEC 27 | 37 | 37 | 37 | 37 | 37 | 37 | 15 | 5.1 | 1.46 | 98 | 121 | 58 | 9 | 45 | 10 | 166 | 2 | 2 | 2 | | | |
| ROSWELL | 75.1 | 42.6 | 58.9 | 105 | JUL 11 | 0 | JAN 7 | APR 23-24 | 4.63 | 1.50 | 23-24 | 7.1 | 2.8 | 11 | FEB 11 | 11 | DEC 27 | 50 | 50 | 50 | 50 | 50 | 50 | 15 | 4.7 | 1.62 | 90 | 113 | 54 | 3 | 41 | 7 | 73 | 3 | 138 | 0 | 0 | 0 | |
| NEW YORK | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ALBANY | 58.3 | 35.2 | 46.8 | 93 | AUG 16 | -24 | JAN 10 | JUN 17-18 | 30.52 | 1.58 | 17-18 | 70.8 | 12.5 | 16-17 | DEC 16 | 16 | DEC 27 | 42 | 42 | 42 | 42 | 42 | 42 | 19 | 7.0 | 56 | 123 | 186 | 142 | 20 | 32 | 21 | 11 | 61 | 154 | 29 | 0 | 0 | 0 |
| BINGHAMTON | 52.8 | 38.1 | 45.5 | 86 | SEP 16 | -7 | JAN 22 | JUN 30 | 33.57 | 2.30 | 30 | 82.8 | 14.1 | 18-17 | DEC 18 | 18 | DEC 27 | 39 | 39 | 39 | 39 | 39 | 39 | 26 | 7.5 | 40 | 105 | 220 | 168 | 23 | 33 | 59 | 0 | 71 | 141 | 7 | 0 | 0 | |
| BUFFALO | 55.6 | 39.6 | 47.6 | 88 | SEP 24 | -8 | JAN 15 | JUL 10 | 34.71 | 1.61 | 19-20 | 108.9 | 7.9 | 26-27 | MAR 26 | 26 | DEC 27 | 41 | 41 | 41 | 41 | 41 | 41 | 26 | 7.6 | 40 | 96 | 229 | 181 | 38 | 41 | 13 | 0 | 65 | 138 | 9 | 0 | 0 | |
| NEW YORK U | 61.7 | 46.8 | 54.3 | 94 | SEP 24 | 3 | JAN 15 | FEB 10 | 35.29 | 2.63 | 10 | 21.2 | 4.0 | 20 | MAR 20 | 20 | DEC 27 | 36 | 36 | 36 | 36 | 36 | 36 | 17 | 6.1 | 9.4 | 114 | 157 | 104 | 6 | 17 | 34 | 13 | 24 | 95 | 0 | 0 | 0 | |
| NEW YORK KENNEDY | 60.8 | 46.8 | 53.8 | 93 | SEP 24 | 6 | JAN 9 | AUG 23 | 29.16 | 1.92 | 23 | 15.5 | 4.3 | 16-19 | MAR 16 | 16 | DEC 27 | 44 | 44 | 44 | 44 | 44 | 44 | 26 | 6.1 | 9.4 | 114 | 157 | 104 | 6 | 17 | 34 | 13 | 24 | 95 | 0 | 0 | 0 | |
| NEW YORK LA GUARDIA | 61.0 | 47.5 | 54.3 | 93 | SEP 23 | 6 | JAN 9 | AUG 23 | 27.36 | 1.96 | 23 | 18.1 | 3.5 | 29 | MAR 29 | 29 | DEC 27 | 47 | 47 | 47 | 47 | 47 | 47 | 17 | 6.2 | 9.2 | 118 | 155 | 112 | 8 | 24 | 11 | 22 | 24 | 88 | 0 | 0 | 0 | |
| ROCHESTER | 57.2 | 38.5 | 47.9 | 93 | APR 30 | -8 | JAN 4 | JUN 17-18 | 37.78 | 1.79 | 30 | 119.8 | 12.2 | 13 | JAN 13 | 13 | DEC 27 | 42 | 42 | 42 | 42 | 42 | 42 | 26 | 7.1 | 5.2 | 116 | 197 | 166 | 37 | 32 | 13 | 11 | 63 | 134 | 14 | 0 | 0 | 0 |
| SYRACUSE | 55.7 | 37.3 | 46.5 | 90 | JUL 16 | -8 | JAN 22 | APR 2 | 38.23 | 2.42 | 2 | 121.3 | 9.4 | 10-17 | DEC 10 | 10 | DEC 27 | 43 | 43 | 43 | 43 | 43 | 43 | 20 | 7.2 | 56 | 92 | 217 | 167 | 39 | 34 | 8 | 1 | 65 | 137 | 13 | 0 | 0 | 0 |
| NORTH CAROLINA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SHEVILLE | 68.3 | 44.0 | 56.2 | 95 | JUL 4 | -4 | JAN 9 | OCT 29-30 | 32.94 | 2.39 | 29-30 | 12.5 | 4.4 | 31 | DEC 31 | 31 | DEC 27 | 44 | 44 | 44 | 44 | 44 | 44 | 2 | 5.9 | 88 | 139 | 138 | 116 | 3 | 48 | 83 | 12 | 10 | 100 | 3 | 0 | 0 | 0 |

See reference notes at end of table.

ANNUAL CLIMATOLOGICAL DATA ENGLISH UNITS

YEAR 1977

| State and Station | Temperature | | | | Precipitation | | | | Relative humidity | | | Wind | | | | Number of days | | | | | | | | | | | | | | | | | | | | |
|--------------------------|---------------|---------------|----------|---------|---------------------|---------|---------------------|-------|----------------------|----------|-------------------|----------------------|----------|---------------|---------------------|----------------|-----------|--------------|------|---------------|-----------|----------|----------|------|-----|------|-----|-----|-----|----|----|----|-----|-----|-----|----|
| | Averages | | Extremes | | Cooling degree days | | Heating degree days | | Snow* | | Relative humidity | | Wind | | Number of days | | | | | | | | | | | | | | | | | | | | | |
| | Daily maximum | Daily minimum | Annual | Highest | Date | Lowest | Date | Total | Greatest in 24 hours | Date (s) | Total | Greatest in 24 hours | Date (s) | Average speed | Resultant direction | Speed | Direction | Fastest mile | Date | Thunderstorms | Heavy fog | Max temp | Min temp | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NEW YORK STATE
ALBANY | 68.6 | 53.9 | 61.3 | 92 | AUG 12 | JAN 17 | 2962 | 1698 | NOV 3 | NOV 11 | 5.1 | 2.5 | DEC 29 | 1.2 | 35 | 48 | SW | AWG | 17 | 4 | 25 | 1 | 4 | 43 | 0 | | | | | | | | | | | |
| | 70.7 | 60.9 | 66.0 | 98 | JUN 4 | JAN 4 | 3697 | 1792 | NOV 30 | JAN 11 | 7.2 | 2.5 | JAN 11 | 4.5 | 25 | 34 | NE | JUL | 30 | 3 | 30 | 49 | 7 | 79 | 0 | | | | | | | | | | | |
| | 69.4 | 47.6 | 58.6 | 98 | JUL 2 | JAN 9 | 3858 | 1621 | AUG 10 | AUG 10 | 9.5 | 2.7 | 31 | 1.1 | 26 | 38 | W | APR 23 | 4 | 52 | 26 | 36 | 12 | 81 | 0 | | | | | | | | | | | |
| | 69.3 | 46.3 | 57.8 | 98 | JUN 0 | JAN 0 | 3884 | 1383 | JUL 10 | JUL 10 | 2.6 | 1.0 | JAN 10 | 4.8 | 24 | 35 | 12 | APR 20 | 5.9 | 10.4 | 108 | 101 | 2 | 48 | 39 | 17 | 10 | 96 | 2 | 4 | 43 | 0 | | | | |
| | 73.5 | 52.0 | 63.2 | 98 | JUN 13 | JAN 10 | 2618 | 2084 | AUG 16 | AUG 16 | 6.1 | 4.0 | 29 | 8.8 | 60 | 78 | 7.5 | 5 | 26 | 44 | 5 | 2 | 40 | 54 | 4 | 43 | 0 | | | | | | | | | |
| | 51.8 | 28.4 | 42.1 | 103 | AUG -41 | JAN -18 | 9531 | 455 | JUN 16 | JUN 16 | 55.6 | 5.4 | NOV 19 | 76 | 59 | 58 | 10.3 | 2.0 | 33 | 52 | NE | APR 8 | 6.1 | 13.8 | 93 | 164 | 108 | 15 | 27 | 44 | 28 | 93 | 185 | 61 | | |
| | 49.7 | 29.2 | 39.5 | 98 | 25 | -32 | 18 | 9858 | 659 | 17 | 20 | 2186 | 20 | SEP 20 | 79 | 83 | 67 | 64 | 11.7 | 1.0 | 29 | 54 | N | 17 | 6.2 | 98 | 104 | 163 | 95 | 13 | 34 | 11 | 20 | 187 | 178 | 50 |
| | 51.6 | 27.8 | 39.7 | 99 | 13 | -45 | 18 | 9694 | 580 | 17 | 18 | 1661 | 8 | SEP 15 | 75 | 81 | 59 | 57 | 10.1 | 2.7 | 32 | 56 | NE | 3 | 6.1 | 10.9 | 83 | 173 | 109 | 19 | 24 | 5 | 13 | 88 | 200 | 59 |
| | 59.5 | 40.9 | 53.2 | 91 | 30 | -7 | 8 | 6132 | 853 | 18 | 15 | 3623 | 3.1 | 22 | 74 | 77 | 59 | 63 | 9.2 | 3.1 | 23 | 38 | 23 | 2 | 7.3 | 50 | 109 | 206 | 159 | 14 | 46 | 37 | 3 | 46 | 126 | 9 |
| | 64.1 | 45.0 | 54.6 | 98 | JUN 2 | -5 | 21 | 5014 | 1315 | 1 | 2 | 4139 | 2.44 | 1 | 74 | 76 | 67 | 66 | 10.5 | 4.0 | 23 | 45 | 26 | 2 | 7.4 | 4.8 | 101 | 216 | 154 | 19 | 38 | 13 | 4 | 54 | 119 | 7 |
| NEW YORK STATE
ALBANY | 68.6 | 53.9 | 61.3 | 92 | AUG 12 | JAN 17 | 2962 | 1698 | NOV 3 | NOV 11 | 5.1 | 2.5 | DEC 29 | 1.2 | 35 | 48 | SW | AWG | 17 | 4 | 25 | 1 | 4 | 43 | 0 | | | | | | | | | | | |
| | 70.7 | 60.9 | 66.0 | 98 | JUN 4 | JAN 4 | 3697 | 1792 | NOV 30 | JAN 11 | 7.2 | 2.5 | JAN 11 | 4.5 | 25 | 34 | NE | JUL | 30 | 3 | 30 | 49 | 7 | 79 | 0 | | | | | | | | | | | |
| | 69.4 | 47.6 | 58.6 | 98 | JUL 2 | JAN 9 | 3858 | 1621 | AUG 10 | AUG 10 | 9.5 | 2.7 | 31 | 1.1 | 26 | 38 | W | APR 23 | 4 | 52 | 26 | 36 | 12 | 81 | 0 | | | | | | | | | | | |
| | 69.3 | 46.3 | 57.8 | 98 | JUN 0 | JAN 0 | 3884 | 1383 | JUL 10 | JUL 10 | 2.6 | 1.0 | JAN 10 | 4.8 | 24 | 35 | 12 | APR 20 | 5.9 | 10.4 | 108 | 101 | 2 | 48 | 39 | 17 | 10 | 96 | 2 | 4 | 43 | 0 | | | | |
| | 73.5 | 52.0 | 63.2 | 98 | JUN 13 | JAN 10 | 2618 | 2084 | AUG 16 | AUG 16 | 6.1 | 4.0 | 29 | 8.8 | 60 | 78 | 7.5 | 5 | 26 | 44 | 5 | 2 | 40 | 54 | 4 | 43 | 0 | | | | | | | | | |
| | 51.8 | 28.4 | 42.1 | 103 | AUG -41 | JAN -18 | 9531 | 455 | JUN 16 | JUN 16 | 55.6 | 5.4 | NOV 19 | 76 | 59 | 58 | 10.3 | 2.0 | 33 | 52 | NE | APR 8 | 6.1 | 13.8 | 93 | 164 | 108 | 15 | 27 | 44 | 28 | 93 | 185 | 61 | | |
| | 49.7 | 29.2 | 39.5 | 98 | 25 | -32 | 18 | 9858 | 659 | 17 | 20 | 2186 | 20 | SEP 20 | 79 | 83 | 67 | 64 | 11.7 | 1.0 | 29 | 54 | N | 17 | 6.2 | 98 | 104 | 163 | 95 | 13 | 34 | 11 | 20 | 187 | 178 | 50 |
| | 51.6 | 27.8 | 39.7 | 99 | 13 | -45 | 18 | 9694 | 580 | 17 | 18 | 1661 | 8 | SEP 15 | 75 | 81 | 59 | 57 | 10.1 | 2.7 | 32 | 56 | NE | 3 | 6.1 | 10.9 | 83 | 173 | 109 | 19 | 24 | 5 | 13 | 88 | 200 | 59 |
| | 59.5 | 40.9 | 53.2 | 91 | 30 | -7 | 8 | 6132 | 853 | 18 | 15 | 3623 | 3.1 | 22 | 74 | 77 | 59 | 63 | 9.2 | 3.1 | 23 | 38 | 23 | 2 | 7.3 | 50 | 109 | 206 | 159 | 14 | 46 | 37 | 3 | 46 | 126 | 9 |
| | 64.1 | 45.0 | 54.6 | 98 | JUN 2 | -5 | 21 | 5014 | 1315 | 1 | 2 | 4139 | 2.44 | 1 | 74 | 76 | 67 | 66 | 10.5 | 4.0 | 23 | 45 | 26 | 2 | 7.4 | 4.8 | 101 | 216 | 154 | 19 | 38 | 13 | 4 | 54 | 119 | 7 |
| NEW YORK STATE
ALBANY | 68.6 | 53.9 | 61.3 | 92 | AUG 12 | JAN 17 | 2962 | 1698 | NOV 3 | NOV 11 | 5.1 | 2.5 | DEC 29 | 1.2 | 35 | 48 | SW | AWG | 17 | 4 | 25 | 1 | 4 | 43 | 0 | | | | | | | | | | | |
| | 70.7 | 60.9 | 66.0 | 98 | JUN 4 | JAN 4 | 3697 | 1792 | NOV 30 | JAN 11 | 7.2 | 2.5 | JAN 11 | 4.5 | 25 | 34 | NE | JUL | 30 | 3 | 30 | 49 | 7 | 79 | 0 | | | | | | | | | | | |
| | 69.4 | 47.6 | 58.6 | 98 | JUL 2 | JAN 9 | 3858 | 1621 | AUG 10 | AUG 10 | 9.5 | 2.7 | 31 | 1.1 | 26 | 38 | W | APR 23 | 4 | 52 | 26 | 36 | 12 | 81 | 0 | | | | | | | | | | | |
| | 69.3 | 46.3 | 57.8 | 98 | JUN 0 | JAN 0 | 3884 | 1383 | JUL 10 | JUL 10 | 2.6 | 1.0 | JAN 10 | 4.8 | 24 | 35 | 12 | APR 20 | 5.9 | 10.4 | 108 | 101 | 2 | 48 | 39 | 17 | 10 | 96 | 2 | 4 | 43 | 0 | | | | |
| | 73.5 | 52.0 | 63.2 | 98 | JUN 13 | JAN 10 | 2618 | 2084 | AUG 16 | AUG 16 | 6.1 | 4.0 | 29 | 8.8 | 60 | 78 | 7.5 | 5 | 26 | 44 | 5 | 2 | 40 | 54 | 4 | 43 | 0 | | | | | | | | | |
| | 51.8 | 28.4 | 42.1 | 103 | AUG -41 | JAN -18 | 9531 | 455 | JUN 16 | JUN 16 | 55.6 | 5.4 | NOV 19 | 76 | 59 | 58 | 10.3 | 2.0 | 33 | 52 | NE | APR 8 | 6.1 | 13.8 | 93 | 164 | 108 | 15 | 27 | 44 | 28 | 93 | 185 | 61 | | |
| | 49.7 | 29.2 | 39.5 | 98 | 25 | -32 | 18 | 9858 | 659 | 17 | 20 | 2186 | 20 | SEP 20 | 79 | 83 | 67 | 64 | 11.7 | 1.0 | 29 | 54 | N | 17 | 6.2 | 98 | 104 | 163 | 95 | 13 | 34 | 11 | 20 | 187 | 178 | 50 |
| | 51.6 | 27.8 | 39.7 | 99 | 13 | -45 | 18 | 9694 | 580 | 17 | 18 | 1661 | 8 | SEP 15 | 75 | 81 | 59 | 57 | 10.1 | 2.7 | 32 | 56 | NE | 3 | 6.1 | 10.9 | 83 | 173 | 109 | 19 | 24 | 5 | 13 | 88 | 200 | 59 |
| | 59.5 | 40.9 | 53.2 | 91 | 30 | -7 | 8 | 6132 | 853 | 18 | 15 | 3623 | 3.1 | 22 | 74 | 77 | 59 | 63 | 9.2 | 3.1 | 23 | 38 | 23 | 2 | 7.3 | 50 | 109 | 206 | 159 | 14 | 46 | 37 | 3 | 46 | 126 | 9 |
| | 64.1 | 45.0 | 54.6 | 98 | JUN 2 | -5 | 21 | 5014 | 1315 | 1 | 2 | 4139 | 2.44 | 1 | 74 | 76 | 67 | 66 | 10.5 | 4.0 | 23 | 45 | 26 | 2 | 7.4 | 4.8 | 101 | 216 | 154 | 19 | 38 | 13 | 4 | 54 | 119 | 7 |
| NEW YORK STATE
ALBANY | 68.6 | 53.9 | 61.3 | 92 | AUG 12 | JAN 17 | 2962 | 1698 | NOV 3 | NOV 11 | 5.1 | 2.5 | DEC 29 | 1.2 | 35 | 48 | SW | AWG | 17 | 4 | 25 | 1 | 4 | 43 | 0 | | | | | | | | | | | |
| | 70.7 | 60.9 | 66.0 | 98 | JUN 4 | JAN 4 | 3697 | 1792 | NOV 30 | JAN 11 | 7.2 | 2.5 | JAN 11 | 4.5 | 25 | 34 | NE | JUL | 30 | 3 | 30 | 49 | 7 | 79 | 0 | | | | | | | | | | | |
| | 69.4 | 47.6 | 58.6 | 98 | JUL 2 | JAN 9 | 3858 | 1621 | AUG 10 | AUG 10 | 9.5 | 2.7 | 31 | 1.1 | 26 | 38 | W | APR 23 | 4 | 52 | 26 | 36 | 12 | 81 | 0 | | | | | | | | | | | |
| | 69.3 | 46.3 | 57.8 | 98 | JUN 0 | JAN 0 | 3884 | 1383 | JUL 10 | JUL 10 | 2.6 | 1.0 | JAN 10 | 4.8 | 24 | 35 | 12 | APR 20 | 5.9 | 10.4 | 108 | 101 | 2 | 48 | 39 | 17 | 10 | 96 | 2 | 4 | 43 | 0 | | | | |
| | 73.5 | 52.0 | 63.2 | 98 | JUN 13 | JAN 10 | 2618 | 2084 | AUG 16 | AUG 16 | 6.1 | 4.0 | 29 | 8.8 | 60 | 78 | 7.5 | 5 | 26 | 44 | 5 | 2 | 40 | 54 | 4 | 43 | 0 | | | | | | | | | |
| | 51.8 | 28.4 | 42.1 | 103 | AUG -41 | JAN -18 | 9531 | 455 | JUN 16 | JUN 16 | 55.6 | 5.4 | NOV 19 | 76 | 59 | 58 | 10.3 | 2.0 | 33 | 52 | NE | APR 8 | 6.1 | 13.8 | 93 | 164 | 108 | 15 | 27 | 44 | 28 | 93 | 185 | 61 | | |
| | 49.7 | 29.2 | 39.5 | 98 | 25 | -32 | 18 | 9858 | 659 | 17 | 20 | 2186 | 20 | SEP 20 | 79 | 83 | 67 | 64 | 11.7 | 1.0 | 29 | 54 | N | 17 | 6.2 | 98 | 104 | 163 | 95 | 13 | 34 | 11 | 20 | 187 | 178 | 50 |
| | 51.6 | 27.8 | 39.7 | 99 | 13 | -45 | 18 | 9694 | 580 | 17 | 18 | 1661 | 8 | SEP 15 | 75 | 81 | 59 | 57 | 10.1 | 2.7 | 32 | 56 | NE | 3 | 6.1 | 10.9 | 83 | 173 | 109 | 19 | 24 | 5 | 13 | 88 | 200 | 59 |
| | 59.5 | 40.9 | 53.2 | 91 | 30 | -7 | 8 | 6132 | 853 | 18 | 15 | 3623 | 3.1 | 22 | 74 | 77 | 59 | 63 | 9.2 | 3.1 | 23 | 38 | 23 | 2 | 7.3 | 50 | 109 | 206 | 159 | 14 | 46 | 37 | 3 | 46 | 126 | 9 |
| | 64.1 | 45.0 | 54.6 | 98 | JUN 2 | -5 | 21 | 5014 | 1315 | 1 | 2 | 4139 | 2.44 | 1 | 74 | 76 | 67 | 66 | 10.5 | 4.0 | 23 | 45 | 26 | 2 | 7.4 | 4.8 | 101 | 216 | 154 | 19 | 38 | 13 | 4 | 54 | 119 | 7 |
| NEW YORK STATE
ALBANY | 68.6 | 53.9 | 61.3 | 92 | AUG 12 | JAN 17 | 2962 | 1698 | NOV 3 | NOV 11 | 5.1 | 2.5 | DEC 29 | 1.2 | 35 | 48 | SW | AWG | 17 | 4 | 25 | 1 | 4 | 43 | 0 | | | | | | | | | | | |
| | 70.7 | 60.9 | 66.0 | 98 | JUN 4 | JAN 4 | 3697 | 1792 | NOV 30 | JAN 11 | 7.2 | 2.5 | JAN 11 | 4.5 | 25 | 34 | NE | JUL | 30 | 3 | 30 | 49 | 7 | 79 | 0 | | | | | | | | | | | |
| | 69.4 | 47.6 | 58.6 | 98 | JUL 2 | JAN 9 | 3858 | 1621 | AUG 10 | AUG 10 | 9.5 | 2.7 | 31 | 1.1 | 26 | 38 | W | APR 23 | 4 | 52 | 26 | 36 | 12 | 81 | 0 | | | | | | | | | | | |
| | 69.3 | 46.3 | 57.8 | 98 | JUN 0 | JAN 0 | 3884 | 1383 | JUL 10 | JUL 10 | 2.6 | 1.0 | JAN 10 | 4.8 | 24 | 35 | 12 | APR 20 | 5.9 | 10.4 | 108 | 101 | 2 | 48 | 39 | 17 | 10 | 96 | 2 | 4 | 43 | 0 | | | | |
| | 73.5 | 52.0 | 63.2 | 98 | JUN 13 | JAN 10 | 2618 | 2084 | AUG 16 | AUG 16 | 6.1 | 4.0 | 29 | 8.8 | 60 | 78 | 7.5 | 5 | 26 | 44 | 5 | 2 | 40 | 54 | 4 | 43 | 0 | | | | | | | | | |
| | 51.8 | 28.4 | 42.1 | 103 | AUG -41 | JAN -18 | 9531 | 455 | JUN 16 | JUN 16 | 55.6 | 5.4 | NOV 19 | 76 | 59 | 58 | 10.3 | 2.0 | 33 | 52 | NE | APR 8 | 6.1 | 13.8 | 93 | 164 | 108 | 15 | 27 | 44 | 28 | 93 | 185 | 61 | | |
| | 49.7 | 29.2 | 39.5 | 98 | 25 | -32 | 18 | 9858 | 659 | 17 | 20 | 2186 | 20 | SEP 20 | 79 | 83 | 67 | 64 | 11.7 | 1.0 | 29 | 54 | N | 17 | 6.2 | 98 | 104 | 163 | 95 | 13 | 34 | 11 | 20 | 187 | 178 | 50 |
| | 51.6 | 27.8 | 39.7 | 99 | 13 | -45 | 18 | 9694 | 580 | 17 | 18 | 1661 | 8 | SEP 15 | 75 | 81 | 59 | 57 | 10.1 | 2.7 | 32 | 56 | NE | 3 | 6.1 | 10.9 | 83 | 173 | 109 | 19 | 24 | 5 | 13 | 88 | 200 | 59 |
| | 59.5 | 40.9 | 53.2 | 91 | 30 | -7 | 8 | 6132 | 853 | 18 | 15 | 3623 | 3.1 | 22 | 74 | 77 | | | | | | | | | | | | | | | | | | | | |

See reference notes at end of table

1. *Introduction*

See reference notes at end of table

ANNUAL CLIMATOLOGICAL DATA

ENGLISH UNITS

YEAR 1968

| State and Station | Temperature | | | | Heating degree days
Base 65 | Cooling degree days
Base 65 | Precipitation | | | | Relative humidity | | | | Wind | | | | Number of days | | | | Max temp
90°F and above | Min temp
32°F and below | 0°F and below | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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24 hours | Date (s) | 1000 m EST | | 7000 m EST | | 7000 m EST | | Average speed | | | | | Residual speed | Residual direction | Speed | Direction | Fastest mile | Precipitation
0.1 inch or more | Snow
10 inch or more | Thunderstorms | Heavy fog | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | °F | °F | °F | °F | | | | | | | | | | | % | % | % | % | MPH | MPH | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| ALABAMA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

See reference notes at end of table

Y1A131-17.

See reference notes at end of table

ANNUAL CLIMATOLOGICAL DATA METRIC UNITS

| State and Station | Temperature | | | | Precipitation | | | | Relative humidity | | | Wind | | | Number of days | | | | | | | | | | | | | | | | | | | | | | |
|-------------------|---------------|---------------|----------|---------|---------------------|--------|---------------------|-------------|-------------------|-------|----------------------|----------|------------|----------------------|----------------|----|------------------------------|----|-------------------|-----------|-------------------|---------------------|---------------|--------------|------------------------|-----------------|--------------------|---------------|------------------|---------------|---------------------------------|-----|-----|-----|-----|----|---|
| | Averages | | Extremes | | Heating degree days | | Cooling degree days | | Snow 1 | | 7000 m EST | | 7000 m EST | | 7000 m EST | | Fastest mile (16 kilometers) | | Average sky cover | | Sunrise to sunset | | Precipitation | | Thunderstorms | | Heavy fog | | Max. temp | | Min. Temp | | | | | | |
| | Daily maximum | Daily minimum | Annual | Highest | Date | Lowest | Date | Base 18.3°C | Base 18.3°C | Total | Greatest in 24 hours | Date (s) | Total | Greatest in 24 hours | Date (s) | % | % | % | Speed | Direction | Resistant speed | Resistant direction | Date | Clear, 0-0.3 | Partly cloudy, 0.4-0.7 | Cloudy, 0.8-1.0 | Snow 2.5mm or more | 25 mm or more | 32.2°C and above | 0°C and below | 0°C and below -17.8°C and below | | | | | | |
| CALIFORNIA | 26.7 | 12.7 | 19.7 | 43.3 | JAN 6 | - 3.3 | 927 | 1484 | 132 | 26 | 25-26 | NOV | 0 | 0 | 14.8 | 49 | 45 | 12 | 3.2 | 1.1 | 35 | 14.5 | 17 | 9 | 3.5 | 203 | 90 | 72 | 25 | 0 | 22 | 125 | 2 | 6 | 0 | | |
| | 23.4 | 3.2 | 13.3 | 41.1 | JAN 4 | - 15.0 | 2416 | 635 | 93 | 28 | 25-26 | NOV | 163 | 102 | 21 | 30 | 20 | | | | | | | 3.9 | 194 | 93 | 78 | 27 | 2 | | 94 | 7 | 151 | 0 | | | |
| | 14.8 | 8.1 | 10.4 | 30.6 | AUG 24 | - 8.3 | 3128 | 309 | 2275 | 156 | 20-21 | JAN | 6919 | 546 | 1-2 | 47 | | | | | | | | 4.8 | 170 | 49 | 136 | 100 | 46 | | 0 | 16 | 101 | 0 | | | |
| | 14.3 | 8.2 | 11.2 | 27.2 | JUL 31 | - 4.6 | 2563 | 1 | 1204 | 67 | 23-24 | NOV | 0 | 0 | | | | | | | | | | 6.7 | 82 | 95 | 190 | 105 | 0 | | 2 | 1 | 0 | 0 | | | |
| | 25.6 | 9.4 | 17.5 | 42.2 | JUL 30 | - 4.4 | 1298 | 1066 | 301 | 44 | 15-16 | JAN | 0 | 0 | | | | | | | | | | 3.6 | 209 | 75 | 81 | 47 | 7 | 36 | 118 | 0 | 12 | 0 | | | |
| | 23.7 | 12.2 | 18.0 | 39.4 | SEP 3 | - 6.3 | 688 | 618 | 312 | 70 | 28-29 | NOV | 0 | 0 | | | | | | | | | | 4.6 | 157 | 116 | 92 | 36 | 0 | 4 | 30 | 26 | 0 | 0 | | | |
| | 21.1 | 13.3 | 17.2 | 38.9 | JAN 7 | - 2.8 | 656 | 308 | 304 | 76 | 28-9 | NOV | 0 | 0 | | | | | | | | | | 4.8 | 150 | 113 | 102 | 35 | 0 | 5 | 30 | 5 | 0 | 0 | | | |
| | 23.9 | 13.9 | 18.9 | 40.6 | JAN 27 | - 3.9 | 523 | 793 | 420 | 103 | 28-29 | JAN | 0 | 0 | | | | | | | | | | 3.7 | 196 | 96 | 73 | 31 | 0 | | 30 | 3 | 0 | 0 | | | |
| | 16.9 | 3.0 | 10.0 | 35.6 | JAN 14 | - 12.8 | 3192 | 211 | 947 | 77 | 27-28 | JAN | 3482 | 716 | 27-28 | 63 | 72 | 55 | 45 | | | | | | 4.8 | 150 | 112 | 103 | 71 | 0 | 2 | 4 | 2 | 0 | 0 | | |
| | 17.9 | 10.6 | 14.3 | 35.0 | JUL 17 | - 1.7 | 1513 | 82 | 663 | 64 | 20-21 | JAN | 0 | 0 | | | | | | | | | | | 4.4 | 185 | 50 | 130 | 83 | 0 | 5 | 9 | 117 | 0 | 13 | 0 | |
| 26.4 | 10.4 | 17.4 | 44.4 | JUL 3 | - 5.6 | 1429 | 1158 | 744 | 67 | 27-28 | NOV | 0 | 0 | | | | | | | | | | | 4.2 | 185 | 73 | 107 | 69 | 0 | 10 | 21 | 94 | 0 | 8 | 0 | | |
| 23.6 | 9.3 | 16.4 | 41.1 | JAN 4 | - 3.3 | 1367 | 734 | 586 | 75 | 28-29 | JAN | 0 | 0 | | | | | | | | | | | 5.4 | 204 | 79 | 91 | 42 | 7 | | 30 | 4 | 63 | 0 | | | |
| 18.1 | 7.9 | 13.0 | 35.6 | JAN 4 | - 4.4 | 2517 | 616 | 518 | 174 | 28-29 | MAR | 896 | 354 | 18-19 | 42 | | | | | | | | | 5.2 | 130 | 120 | 115 | 36 | 0 | 0 | 19 | 3 | 0 | 0 | | | |
| 20.8 | 14.2 | 17.5 | 36.1 | SEP 3 | - 3.9 | 632 | 385 | 238 | 0 | 0 | JAN | 0 | 0 | | | | | | | | | | | 5.2 | 130 | 120 | 115 | 36 | 0 | 0 | 19 | 3 | 0 | 0 | | | |
| 18.7 | 9.7 | 14.2 | 36.1 | JUL 2 | - 6.5 | 1547 | 97 | 653 | 57 | 13-14 | JAN | 0 | 0 | | | | | | | | | | | 4.6 | 169 | 84 | 112 | 75 | 0 | 2 | 5 | 8 | 0 | 0 | | | |
| 17.0 | 10.7 | 13.9 | 33.2 | JAN 25 | - 5.0 | 1670 | 79 | 616 | 59 | 30-31 | JAN | 0 | 0 | | | | | | | | | | | JUN | | | | | | | 3 | 0 | 0 | 0 | | | |
| SAN FRANCISCO U | 20.3 | 7.2 | 13.7 | 37.8 | MAY 1 | - 3.9 | 1674 | 46 | 337 | 65 | 28-1 | JAN | 0 | 0 | | | | | | | | | | JUN | | | | | | | 3 | 0 | 0 | 0 | | | |
| SANTA MARIA | 20.3 | 7.2 | 13.7 | 37.8 | MAY 1 | - 3.9 | 1674 | 46 | 337 | 65 | 28-1 | JAN | 0 | 0 | | | | | | | | | | JUN | | | | | | | 3 | 0 | 0 | 0 | | | |
| STOCKTON | 23.9 | 9.7 | 16.8 | 41.7 | JAN 4 | - 3.9 | 1354 | 857 | 578 | 54 | 13-14 | JAN | 0 | 0 | | | | | | | | | | 4.2 | 181 | 105 | 79 | 50 | 0 | 1 | 7 | 0 | 13 | 0 | | | |
| COLORADO | | | | | | | | | | | | | | | | | | | | | | | | 4.2 | 183 | 72 | 110 | 73 | 0 | 6 | 37 | 102 | 0 | 10 | 0 | | |
| ALAMOSA | 15.1 | - 4.8 | 5.2 | 31.7 | AUG 6 | - 32.8 | 4794 | 53 | 205 | 29 | JUL | 1247 | 193 | 15 | 79 | 43 | 38 | | | | | | | 4.6 | 142 | 138 | 85 | 65 | 15 | | 0 | 13 | 239 | 31 | | | |
| COLORADO SPRINGS | 16.3 | 1.8 | 9.1 | 34.4 | JUN 28 | - 22.2 | 3635 | 297 | 419 | 77 | 20-21 | AUG | 940 | 187 | 17-18 | 60 | 64 | 38 | 39 | 4.6 | 1.0 | 2 | 21.5 | 35 | 11 | 133 | 119 | 113 | 75 | 13 | 42 | 15 | 11 | 23 | 185 | 4 | |
| DENVER | 18.1 | 1.3 | 9.7 | 36.7 | AUG 20 | - 23.3 | 3466 | 363 | 349 | 80 | JUN | 1194 | 142 | 12-13 | 67 | 74 | 41 | 40 | 3.3 | 5 | 23 | 17.9 | NE | 5.2 | 133 | 116 | 116 | 89 | 17 | 30 | 7 | 32 | 17 | 184 | 4 | | |
| GRAND JUNCTION | 18.9 | 4.3 | 11.6 | 39.4 | JUN 26 | - 16.7 | 3101 | 494 | 211 | 18 | 9-10 | JUN | 660 | 137 | 2-3 | 47 | 54 | 38 | 31 | 4.2 | 1.0 | 13 | 22.4 | SW | 5.0 | 142 | 106 | 117 | 70 | 9 | 30 | 7 | 65 | 11 | 158 | 0 | |
| PUEBLO | 21.8 | 3.9 | 12.8 | 40.0 | JUN 27 | - 23.9 | 2757 | 817 | 236 | 26 | 21-22 | SEP | 775 | 124 | 30 | 52 | 62 | 35 | 30 | 4.2 | 4 | 33 | 23.2 | N | 5.1 | 137 | 108 | 120 | 57 | 10 | 21 | 12 | 88 | 7 | 159 | 7 | |
| CONNECTICUT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BRIDGEPORT | 15.4 | 6.6 | 11.0 | 33.9 | JUL 28 | - 15.6 | 3074 | 454 | 853 | 65 | 1-2 | APR | 742 | 147 | 29 | 74 | 73 | 59 | 66 | 5.6 | 1.3 | 30 | 22.8 | SE | 6.1 | 105 | 94 | 166 | 118 | 10 | 25 | 36 | 4 | 28 | 114 | 0 | |
| HARTFORD | 15.6 | 4.3 | 9.9 | 36.1 | AUG 16 | - 22.2 | 3512 | 512 | 976 | 73 | 2 | APR | 1361 | 246 | 11-12 | 73 | 75 | 53 | 60 | 3.9 | 1.0 | 28 | 18.6 | NE | 6.5 | 69 | 129 | 167 | 125 | 15 | 20 | 32 | 25 | 54 | 138 | 5 | |
| DELAWARE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| WILMINGTON | 17.6 | 7.5 | 12.6 | 34.4 | SEP 23 | - 18.9 | 2776 | 738 | 973 | 61 | 14-15 | APR | 376 | 152 | 6-7 | 77 | 78 | 56 | 66 | 3.9 | 9 | 28 | 17.9 | DEC | 6.3 | 101 | 97 | 167 | 106 | 6 | 42 | 34 | 21 | 20 | 104 | 2 | |
| DIST. OF COLUMBIA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| WASHINGTON D.C. | 18.0 | 5.1 | 11.6 | 34.4 | SEP 22 | - 22.2 | 2938 | 522 | 989 | 58 | 20-21 | JUL | 597 | 216 | 31 | 86 | 86 | 57 | 71 | 3.0 | 6 | 28 | 15.6 | 30 | 6.5 | 94 | 96 | 175 | 110 | 6 | 36 | 41 | 23 | 18 | 122 | 5 | |
| WASHINGTON DULLES | 19.4 | 9.1 | 14.3 | 35.6 | SEP 23 | - 15.6 | 2390 | 579 | 1006 | 119 | 9 | JUL | 315 | 124 | 31 | 72 | 74 | 53 | 60 | 3.8 | 7 | 28 | 19.2 | E | 6.3 | 98 | 95 | 172 | 100 | 4 | 32 | 14 | 55 | 11 | 84 | 0 | |
| FLORIDA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| APALACHICOLA U | 24.2 | 16.3 | 20.3 | 35.6 | JUN 19 | - 5.6 | 843 | 1613 | 1596 | 154 | MAY 29 | 0 | 0 | 0 | | | | | | | | | | 19.7 | SE | 5.3 | 131 | 115 | 119 | 108 | 0 | 62 | 33 | 40 | 0 | 11 | 0 |
| DAYTONA BEACH | 26.9 | 16.6 | 21.7 | 36.7 | AUG 4 | - 2.8 | 539 | 1847 | 848 | 75 | 2-3 | 0 | 0 | 0 | | | | | | | | | | 19.7 | SE | 6.0 | 89 | 143 | 133 | 99 | 0 | 54 | 29 | 96 | 0 | 8 | 0 |

See reference notes at end of table

ANNUAL CLIMATOLOGICAL DATA METRIC UNITS

YEAR 1971

| State and Station | Temperature | | | | Precipitation | | | | Relative humidity | | | | Wind | | | | Number of days | | | |
|-------------------|-------------|-------|----------|-----|---------------------|-----|---------------------|-----|-------------------|----------|------------|-----------|-----------|-------|-----------|-------|-------------------|--------------------|---------------------|-------------------|
| | Averages | | Extremes | | Heating degree days | | Cooling degree days | | Snow | | 1000 m EST | | Direction | | Speed | | Sunrise to sunset | | Thunderstorms | |
| | Day | Night | High | Low | Base | Top | Base | Top | Start | End | 1000 m EST | 700 m EST | Direction | Speed | Direction | Speed | Clear, 0-3 | Partly cloudy, 0-7 | Snow, 25 mm or more | Heavy fog |
| | °C | °C | °C | °C | °C | °C | °C | °C | Date (s) | Date (s) | % | % | Mps | Mps | Mps | Mps | 0-3 | 0-7 | 25 mm or more | 32.2 °C and above |

See reference notes at end of table

ANNUAL CLIMATOLOGICAL DATA METRIC UNITS

YEAR 19

| State and Station | Temperature | | | | Precipitation | | | | Relative humidity | | | | Wind | | | | Number of days | | | | | | | | | | | |
|-------------------|---------------|---------------|----------|------|---------------|---------------|--------|----------------------|-------------------|----------------------|----------|-------|-----------|----------|----------|-------|------------------------------|------|-------------------|----------------------------|-------------------|--------------|------------------------|-----------------|----|----|-----|----|
| | Averages | | Extremes | | Total | | Snow 1 | | Snow 2 | | 100m EST | | 700m EST | | 700m EST | | Fastest mile (16 kilometers) | | Sunrise to sunset | | Thunderstorms | | Heavy fog | | | | | |
| | Daily maximum | Daily minimum | Annual | Date | Daily maximum | Daily minimum | Date | Greatest in 24 hours | Total | Greatest in 24 hours | Date (s) | % | 1000m EST | 700m EST | 700m EST | Speed | Direction | Date | Average sky cover | Precipitation 25mm or more | Snow 25mm or more | Clear, 0-0.3 | Partly cloudy, 0.4-0.7 | Cloudy, 0.8-1.0 | | | | |
| | °C | °C | °C | | °C | °C | | Mm. | Mm. | Mm. | Mm. | | % | % | % | % | Mps | Mph | | Tenths | | | | | | | | |
| INDIANA | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| INDIANAPOLIS | 16.7 | 5.7 | 11.2 | 37.4 | JUL | -27.2 | JAN | 31.79 | 648 | 838 | 43 | OCT | 594 | 130 | 17-18 | MAR | 6.5 | 86 | 94 | 185 | 121 | 7 | 46 | 21 | 18 | 59 | 123 | 12 |
| SOUTH BEND | 13.8 | 4.6 | 9.2 | 34.4 | JUL | -25.3 | JAN | 36.74 | 418 | 1004 | 61 | 13-14 | 2327 | 274 | 23-24 | NOV | 7.1 | 55 | 106 | 274 | 160 | 27 | 50 | 26 | 7 | 52 | 128 | 14 |
| IOWA | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BURLINGTON | 15.4 | 4.6 | 10.0 | 37.8 | JUL | -30.0 | JAN | 35.27 | 549 | 1089 | 112 | 4-5 | 523 | 203 | | APR | 6.0 | 104 | 113 | 168 | 111 | 9 | 50 | 16 | 17 | 44 | 134 | 11 |
| DES MOINES | 15.4 | 4.7 | 10.1 | 37.2 | JUL | -31.1 | JAN | 36.13 | 662 | 854 | 69 | 12-13 | 500 | 137 | 17 | MAR | 5.8 | 109 | 101 | 145 | 117 | 4 | 57 | 16 | 26 | 49 | 133 | 15 |
| DUBUQUE | 13.1 | 2.8 | 7.9 | 34.4 | JUN | -33.3 | JAN | 41.34 | 616 | 934 | 99 | 7-8 | 795 | 99 | | MAR | 6.1 | 98 | 108 | 149 | 120 | 12 | | | 8 | 63 | 147 | 28 |
| SILOUX CITY | 14.9 | 2.9 | 8.9 | 38.3 | JUN | -32.2 | JAN | 40.27 | 649 | 732 | 72 | | 894 | 183 | 18-19 | JUN | 5.9 | 111 | 95 | 149 | 100 | 9 | 57 | 16 | 41 | 56 | 159 | 23 |
| WATERLOO | 12.9 | 1.4 | 7.2 | 37.2 | JUN | -35.0 | JAN | 44.48 | 444 | 763 | 61 | 8-9 | 617 | 109 | 10-11 | DEC | 6.1 | 105 | 97 | 163 | 114 | 9 | 43 | 22 | 15 | 75 | 166 | 39 |
| KANSAS | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CONCORDIA | 18.5 | 5.1 | 11.8 | 42.2 | JUL | -21.1 | JAN | 31.80 | 862 | 725 | 131 | 24-25 | 437 | 117 | 9 | OCT | 5.2 | 133 | 95 | 137 | 84 | 6 | 55 | 18 | 64 | 24 | 144 | 7 |
| DODGE CITY | 23.2 | 5.6 | 12.9 | 41.1 | JUL | -19.4 | JAN | 28.93 | 950 | 311 | 38 | 17-18 | 696 | 325 | 15-16 | MAR | 5.6 | 120 | 105 | 140 | 67 | 7 | 38 | 23 | 78 | 17 | 138 | 1 |
| GOODLAND | 18.9 | 2.6 | 10.8 | 42.2 | AUG | -21.1 | JAN | 33.17 | 612 | 335 | 32 | | 714 | 74 | | OCT | 5.5 | 1.0 | 24 | 22.8 | 68 | 11 | 37 | 26 | 65 | 18 | 177 | 3 |
| TOPEKA | 18.5 | 6.1 | 12.3 | 40.6 | JUL | -20.6 | JAN | 29.90 | 947 | 803 | 96 | 21-22 | 572 | 201 | 15-16 | FEB | 6.0 | 111 | 91 | 163 | 88 | 7 | 56 | 9 | 50 | 24 | 127 | 5 |
| WICHITA | 19.7 | 6.8 | 13.3 | 41.7 | JUL | -18.3 | JAN | 28.03 | 1027 | 642 | 94 | 10-11 | 493 | 343 | 15-16 | MAR | 5.8 | 117 | 93 | 155 | 76 | 4 | 42 | 23 | 74 | 16 | 132 | 1 |
| KENTUCKY | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| COVINGTON | 18.1 | 7.0 | 12.6 | 37.8 | JUL | -20.6 | JAN | 27.98 | 763 | 1037 | 61 | 1-2 | 605 | 107 | 12-13 | MAR | 6.9 | 73 | 94 | 198 | 139 | 7 | 49 | 30 | 33 | 31 | 101 | 9 |
| LEXINGTON | 17.9 | 7.1 | 12.5 | 36.1 | JUL | -22.2 | JAN | 27.37 | 689 | 1207 | 75 | 25 | 653 | 127 | 14 | FEB | 6.6 | 91 | 88 | 186 | 142 | 7 | 45 | 19 | 16 | 25 | 106 | 9 |
| LOUISVILLE | 18.7 | 7.9 | 13.3 | 36.1 | JUL | -18.9 | JAN | 25.49 | 786 | 1326 | 123 | 1-2 | 688 | 165 | 28-29 | MAR | 6.5 | 90 | 90 | 185 | 132 | 7 | 50 | 10 | 22 | 17 | 95 | 4 |
| LOUISIANA | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ALEXANDRIA | 23.9 | 11.6 | 17.8 | 37.8 | JUL | -8.9 | JAN | 13.62 | 1221 | 1107 | 108 | 11-12 | 0 | 0 | | OCT | 5.9 | 102 | 125 | 138 | 105 | 0 | 67 | 36 | 73 | 0 | 49 | 0 |
| BATON ROUGE | 24.8 | 13.7 | 19.2 | 37.2 | JUL | -6.7 | JAN | 10.48 | 1434 | 1366 | 94 | OCT | 0 | 0 | | MAR | 6.1 | 96 | 113 | 156 | 112 | 0 | 71 | 43 | 69 | 0 | 24 | 0 |
| LAKE CHARLES | 25.2 | 14.3 | 19.8 | 37.2 | JUL | -6.7 | JAN | 9.65 | 1535 | 1402 | 184 | 27-28 | 0 | 0 | | MAR | 6.2 | 92 | 115 | 148 | 86 | 0 | 79 | 44 | 86 | 0 | 16 | 0 |
| NEW ORLEANS | 25.2 | 14.2 | 19.7 | 36.7 | JUL | -8.3 | JAN | 9.36 | 1481 | 1279 | 75 | 3-4 | 0 | 0 | | MAR | 5.7 | 110 | 108 | 147 | 106 | 0 | 60 | 34 | 73 | 0 | 23 | 0 |
| SHREVEPORT | 24.2 | 12.9 | 18.6 | 38.3 | JUL | -9.4 | JAN | 12.94 | 1452 | 1062 | 84 | 27-28 | 0 | 0 | | OCT | 6.1 | 100 | 104 | 161 | 101 | 0 | 45 | 13 | 92 | 1 | 37 | 0 |
| MAINE | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CARIBOU | 9.4 | -1.0 | 4.2 | 32.8 | JUL | -32.2 | JAN | 52.67 | 184 | 957 | 103 | 3-4 | 2629 | 226 | 2-3 | APR | 7.1 | 61 | 102 | 202 | 153 | 31 | | | 5 | 92 | 173 | 52 |
| PORTLAND | 12.7 | 2.7 | 7.7 | 33.9 | JUL | -25.6 | JAN | 40.58 | 227 | 1053 | 59 | 1-2 | 2398 | 579 | 17-18 | DEC | 6.4 | 94 | 100 | 171 | 107 | 19 | 20 | 42 | 6 | 63 | 138 | 11 |
| MARYLAND | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BALTIMORE | 18.8 | 7.9 | 13.4 | 36.7 | SEP | -16.7 | JAN | 25.68 | 833 | 900 | 47 | 14-15 | 465 | 112 | 6-7 | JAN | 6.1 | 96 | 114 | 155 | 111 | 6 | 35 | 27 | 48 | 16 | 93 | 0 |
| MASSACHUSETTS | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BLUE HILL OBS. R. | 13.6 | 4.4 | 9.0 | 34.4 | JUL | -20.6 | JAN | 36.76 | 337 | 1227 | 69 | 20-21 | 1697 | 191 | 31 | MAR | | | | | 124 | 22 | | | 8 | 60 | 127 | 1 |
| BOSTON | 14.7 | 6.2 | 10.5 | 34.4 | AUG | -16.1 | JAN | 32.51 | 450 | 1065 | 72 | 16-17 | 1628 | 185 | 29 | MAR | 6.1 | 106 | 94 | 165 | 125 | 18 | 25 | 13 | 14 | 40 | 104 | 0 |
| WORCESTER | 12.6 | 2.8 | 7.7 | 33.3 | AUG | -22.8 | JAN | 40.95 | 287 | 1036 | 81 | 20 | 1890 | 262 | 16-17 | DEC | 6.1 | 103 | 93 | 169 | 119 | 23 | 24 | 74 | 7 | 72 | 150 | 11 |
| MICHIGAN | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ALPENA | 11.8 | -1 | 5.9 | 33.3 | JUL | -30.6 | FEB | 46.73 | 197 | 689 | 40 | 13-14 | 2967 | 315 | 3-4 | DEC | 6.8 | 70 | 107 | 188 | 136 | 36 | 39 | 37 | 6 | 80 | 178 | 28 |
| DETROIT | 14.2 | 5.6 | 9.9 | 34.4 | JUN | -20.6 | JAN | 39.89 | 564 | | | | | | | | 21 | | | | | 36 | 39 | 37 | 6 | 80 | 178 | 28 |
| TROIT METRO. | 14.5 | 4.1 | 9.3 | 34.4 | JUN | -23.3 | JAN | 36.78 | 458 | 730 | 47 | 19 | 1085 | 122 | 9 | FEB | 6.9 | 64 | 109 | 192 | 137 | 17 | 38 | 25 | 8 | 57 | 133 | 12 |

See reference notes at end of table

ANNUAL CLIMATOLOGICAL DATA

METRIC UNITS

YEAR 1977

| State and Station | Temperature | | | | Precipitation | | | | Relative humidity | | Wind | | | Number of days | | | | | | | | | | | | | | | | | | | |
|-------------------|---------------|---------------|----------|---------|---------------------|-------|---------------------|--------------|-------------------|-------|----------------------|----------|-----------|----------------|-----------------|------|------------------------------|-------|-------------------|------|-------------------|--------------|------------------------|-----------------|--------------|-------------------|----------------------------|----------------|-------------------------|--------------------|-----|-----|----|
| | Averages | | Extremes | | Heating degree days | | Cooling degree days | | Snow | | 700 m EST | | 700 m EST | | Resultant speed | | Fastest mile (16 kilometers) | | Sunrise to sunset | | Precipitation | | Thunderstorms | | Heavy fog | | Max temp 32.2 °C and above | | Min temp 0 °C and below | | | | |
| | Daily maximum | Daily minimum | Annual | Highest | Lowest | Date | Date | Base 18.3 °C | Base 18.3 °C | Total | Greatest in 24 hours | Date (s) | % | % | Mps. | Mps. | Resultant direction | Speed | Direction | Date | Average sky cover | Clear, 0-0.3 | Partly cloudy, 0.4-0.7 | Cloudy, 0.8-1.0 | 25mm or more | Snow 25mm or more | 32.2 °C and above | 0 °C and below | 0 °C and below | -17.8 °C and below | | | |
| | °C | °C | °C | °C | °C | | | | | Mm. | Mm. | | | | | | | | | | | | | | | | | | | | | | |
| MICHIGAN | 12.9 | 3.2 | 8.1 | 41.7 | JUL | -24.4 | JAN | 5978 | 314 | 754 | 41 | JUL 10 | 80 | 83 | 63 | 68 | 4.5 | 23 | 14.3 | 27 | DEC | 7.0 | 63 | 108 | 194 | 137 | 18 | 34 | 18 | 0 | 65 | 134 | 18 |
| | 13.3 | 3.1 | 8.4 | 32.8 | JUL | -24.4 | JAN | 4003 | 174 | 1405 | 82 | JUL 12 | 80 | 82 | 64 | 68 | 4.7 | 23 | 19.7 | 41 | JUL | 7.0 | 66 | 98 | 201 | 151 | 27 | 44 | 28 | 8 | 67 | 144 | 15 |
| | 11.4 | 4.1 | 5.2 | 32.8 | JUN | -31.7 | JAN | 4687 | 212 | 803 | 42 | JUL 10 | 84 | 85 | 65 | 70 | 4.0 | 25 | 17.9 | 27 | NOV | 6.9 | 70 | 94 | 201 | 146 | 35 | 50 | 24 | 1 | 86 | 170 | 36 |
| | 13.3 | 2.6 | 7.9 | 33.1 | JUL | -25.6 | JAN | 4012 | 314 | 819 | 41 | JUL 10 | 78 | 78 | 65 | 69 | 4.6 | 24 | 24.1 | 5W | DEC | 6.8 | 67 | 109 | 149 | 148 | 19 | 43 | 29 | 4 | 86 | 146 | 16 |
| | 10.1 | 1.7 | 5.7 | 34.4 | JUN | -24.4 | JAN | 4717 | 244 | 778 | 50 | JUL 10 | 78 | 80 | 64 | 68 | 5.0 | 24 | 20.6 | 41 | APR | 7.0 | 64 | 104 | 136 | 159 | 32 | 8 | 89 | 156 | 13 | | |
| | 10.2 | 1.8 | 8.4 | 34.4 | JUN | -20.6 | JAN | 3911 | 348 | 844 | 56 | JUL 10 | 78 | 80 | 64 | 68 | 5.0 | 24 | 20.6 | 41 | NOV | 6.9 | 69 | 98 | 198 | 154 | 41 | 42 | 20 | 2 | 68 | 143 | 7 |
| | 9.2 | 1.5 | 3.8 | 34.1 | AUG | -32.4 | JAN | 5303 | 91 | 995 | 130 | JUL 10 | 80 | 80 | 65 | 70 | 3.9 | 21 | 19.2 | 19 | JAN | 7.0 | 64 | 96 | 105 | 154 | 37 | 43 | 44 | 0 | 106 | 178 | 42 |
| | 8.6 | -2.2 | 3.4 | 34.3 | AUG | -35.6 | JAN | 5844 | 191 | 698 | 52 | JUL 10 | 76 | 80 | 63 | 63 | 5.1 | 27 | 24.1 | 19 | APR | 6.6 | 78 | 106 | 141 | 144 | 25 | 41 | 55 | 4 | 115 | 181 | 58 |
| | 8.7 | -1.7 | 2.7 | 34.4 | FEB | -38.1 | JAN | 6072 | 218 | 576 | 39 | JUL 10 | 77 | 81 | 64 | 63 | 4.2 | 26 | 19.7 | 12 | APR | 6.7 | 83 | 89 | 163 | 131 | 22 | 33 | 14 | 9 | 115 | 196 | 88 |
| | 12.0 | 1.7 | 6.8 | 16.1 | JUN | -36.7 | JAN | 4639 | 511 | 775 | 49 | JUL 10 | 74 | 78 | 61 | 61 | 4.6 | 27 | 20.1 | 12 | APR | 6.1 | 106 | 88 | 171 | 129 | 12 | 47 | 11 | 26 | 89 | 155 | 36 |
| | 11.4 | 1.8 | 6.8 | 16.4 | JUN | -35.6 | JAN | 4712 | 336 | 858 | 63 | JUL 10 | 79 | 81 | 66 | 67 | 5.9 | 24 | 19.2 | 30 | NOV | 6.2 | 96 | 106 | 163 | 126 | 14 | 42 | 34 | 4 | 80 | 154 | 43 |
| | 10.8 | -1.7 | 5.1 | 35.0 | JAN | -36.1 | JAN | 5137 | 364 | 639 | 48 | JUL 10 | 80 | 80 | 59 | 60 | 5.0 | 24 | 19.2 | 30 | NOV | 6.1 | 115 | 87 | 163 | 111 | 7 | 15 | 99 | 175 | 52 | 0 | 0 |
| MISSISSIPPI | 24.6 | 11.6 | 18.1 | 38.9 | JUL | -12.8 | JAN | 1407 | 1374 | 1228 | 89 | JUL 10 | 87 | 92 | 60 | 69 | 3.3 | 17 | 16.1 | 5 | JUL | 6.1 | 93 | 116 | 156 | 111 | 0 | 66 | 26 | 94 | 1 | 52 | 0 |
| | 24.5 | 10.8 | 17.7 | 38.9 | JAN | -13.3 | JAN | 1460 | 1265 | 1315 | 153 | JUL 10 | 88 | 91 | 56 | 67 | 2.6 | 13 | 14.8 | 28 | APR | 6.3 | 78 | 120 | 167 | 108 | 0 | 60 | 43 | 97 | 0 | 56 | 0 |
| | 17.4 | 6.8 | 12.4 | 39.4 | JUL | -23.9 | JAN | 2903 | 716 | 1112 | 107 | JUL 10 | 77 | 82 | 61 | 63 | 4.9 | 20 | 23.2 | 10 | MAY | 6.3 | 91 | 91 | 183 | 124 | 8 | 48 | 31 | 27 | 28 | 117 | 8 |
| | 15.4 | 8.5 | 13.9 | 41.1 | JUL | -20.6 | JAN | 2803 | 1075 | 917 | 135 | JUL 10 | 70 | 76 | 55 | 54 | 4.6 | 20 | 17.9 | 10 | SEP | 5.8 | 117 | 92 | 166 | 87 | 5 | 48 | 4 | 58 | 21 | 93 | 5 |
| | 19.8 | 7.1 | 13.4 | 39.4 | JUL | -21.7 | JAN | 2733 | 1004 | 917 | 91 | JUL 10 | 70 | 76 | 53 | 53 | 4.1 | 21 | 20.6 | 28 | MAY | 5.6 | 124 | 109 | 132 | 1 | 1 | 69 | 20 | 112 | 6 | 6 | 6 |
| | 18.5 | 7.1 | 12.8 | 39.4 | JUL | -22.2 | JAN | 2792 | 844 | 919 | 59 | JUL 10 | 79 | 85 | 61 | 64 | 4.3 | 14 | 22 | 31 | APR | 6.4 | 87 | 103 | 175 | 124 | 5 | 49 | 14 | 40 | 23 | 111 | 5 |
| | 18.7 | 6.3 | 12.6 | 37.8 | JUL | -21.1 | JAN | 2818 | 773 | 1063 | 98 | JUL 10 | 80 | 84 | 59 | 64 | 4.6 | 14 | 19 | 31 | MAR | 5.7 | 113 | 100 | 142 | 112 | 8 | 56 | 29 | 47 | 19 | 118 | 6 |
| | 13.9 | 1.3 | 7.6 | 37.8 | JUL | -25.6 | JAN | 4251 | 401 | 409 | 39 | JUL 10 | 61 | 68 | 53 | 47 | 5.2 | 21 | 27 | 19 | APR | 6.2 | 91 | 104 | 170 | 98 | 21 | 19 | 21 | 36 | 46 | 175 | 38 |
| | 11.4 | 1.3 | 5.1 | 38.9 | JUL | -37.2 | JAN | 5840 | 364 | 260 | 27 | JUL 10 | 68 | 75 | 57 | 52 | 5.0 | 21 | 19.7 | 30 | APR | 6.3 | 86 | 107 | 172 | 107 | 8 | 24 | 9 | 39 | 8 | 194 | 45 |
| | 19.1 | 4.4 | 6.7 | 38.3 | JUL | -27.2 | JAN | 4496 | 322 | 390 | 34 | JUL 10 | 59 | 64 | 49 | 44 | 5.4 | 24 | 28.9 | 34 | DEC | 6.3 | 92 | 99 | 174 | 111 | 30 | 24 | 27 | 31 | 52 | 181 | 32 |
| | 12.1 | 2.6 | 4.8 | 44.1 | JUL | -37.2 | JAN | 5171 | 284 | 301 | 57 | JUL 10 | 68 | 75 | 54 | 48 | 4.6 | 17 | 26.9 | 34 | APR | 6.4 | 91 | 91 | 183 | 82 | 16 | 21 | 19 | 38 | 76 | 193 | 50 |
| | 12.7 | 1.4 | 5.7 | 36.7 | JUL | -28.3 | JAN | 4733 | 178 | 247 | 27 | JUL 10 | 72 | 72 | 53 | 44 | 3.4 | 19 | 28 | 34 | FEB | 6.4 | 89 | 97 | 199 | 97 | 29 | 3 | 34 | 45 | 193 | 17 | |
| 12.4 | 1.3 | 5.6 | 36.1 | JUL | -29.4 | JAN | 4714 | 108 | 441 | 29 | JUL 10 | 72 | 72 | 53 | 44 | 3.4 | 19 | 14.3 | 3 | MAR | 6.8 | 88 | 71 | 276 | 140 | 27 | 20 | 35 | 21 | 52 | 203 | 14 | |
| MINNESOTA | 13.6 | 1.6 | 7.1 | 40.0 | JUL | -31.7 | JAN | 4597 | 544 | 386 | 386 | JUL 10 | 69 | 76 | 57 | 53 | 4.7 | 12 | 31 | 3 | MAY | 6.8 | 88 | 71 | 276 | 140 | 27 | 20 | 35 | 21 | 52 | 203 | 14 |
| | 13.4 | 1.0 | 6.7 | 37.8 | JUL | -28.1 | JAN | 4361 | 185 | 383 | 27 | JUL 10 | 74 | 85 | 64 | 53 | 2.7 | 16 | 18.8 | 34 | FEB | 6.8 | 83 | 73 | 209 | 132 | 21 | 26 | 37 | 43 | 202 | 5 | 5 |
| | 17.3 | 5.4 | 10.4 | 41.7 | JUN | -23.3 | JAN | 3819 | 776 | 465 | 68 | JUL 10 | 69 | 75 | 50 | 49 | 5.4 | 26 | 20.6 | 27 | DEC | 5.4 | 124 | 96 | 145 | 82 | 2 | 45 | 23 | 58 | 35 | 166 | 13 |
| | 17.1 | 5.7 | 11.4 | 39.4 | JUL | -23.9 | JAN | 3334 | 859 | 730 | 54 | JUL 10 | 68 | 75 | 50 | 49 | 5.4 | 26 | 20.6 | 27 | APR | 5.7 | 122 | 97 | 166 | 87 | 3 | 49 | 35 | 133 | 20 | 0 | 0 |
| | 15.2 | 2.6 | 8.9 | 40.0 | JUL | -31.1 | JAN | 4222 | 644 | 643 | 99 | JUL 10 | 82 | 82 | 57 | 57 | 5.4 | 26 | 20.6 | 27 | MAR | 5.6 | 119 | 93 | 163 | 75 | 6 | 40 | 54 | 174 | 17 | 0 | 0 |
| | 17.3 | 1.7 | 9.2 | 39.4 | JUL | -23.3 | JAN | 3858 | 524 | 412 | 80 | JUL 10 | 72 | 80 | 50 | 47 | 4.2 | 36 | 23.7 | 19 | NOV | 5.3 | 132 | 107 | 126 | 79 | 11 | 44 | 14 | 55 | 35 | 193 | 11 |
| | 17.3 | 1.7 | 9.2 | 39.4 | JUL | -23.3 | JAN | 3858 | 524 | 412 | 80 | JUL 10 | 72 | 80 | 50 | 47 | 4.2 | 36 | 23.7 | 19 | NOV | 5.3 | 132 | 107 | 126 | 79 | 11 | 44 | 14 | 55 | 35 | 193 | 11 |
| | 17.3 | 1.7 | 9.2 | 39.4 | JUL | -23.3 | JAN | 3858 | 524 | 412 | 80 | JUL 10 | 72 | 80 | 50 | 47 | 4.2 | 36 | 23.7 | 19 | NOV | 5.3 | 132 | 107 | 126 | 79 | 11 | 44 | 14 | 55 | 35 | 193 | 11 |
| | 17.3 | 1.7 | 9.2 | 39.4 | JUL | -23.3 | JAN | 3858 | 524 | 412 | 80 | JUL 10 | 72 | 80 | 50 | 47 | 4.2 | 36 | 23.7 | 19 | NOV | 5.3 | 132 | 107 | 126 | 79 | 11 | 44 | 14 | 55 | 35 | 193 | 11 |
| | 17.3 | 1.7 | 9.2 | 39.4 | JUL | -23.3 | JAN | 3858 | 524 | 412 | 80 | JUL 10 | 72 | 80 | 50 | 47 | 4.2 | 36 | 23.7 | 19 | NOV | 5.3 | 132 | 107 | 126 | 79 | 11 | 44 | 14 | 55 | 35 | 193 | 11 |
| | 17.3 | 1.7 | 9.2 | 39.4 | JUL | -23.3 | JAN | 3858 | 524 | 412 | 80 | JUL 10 | 72 | 80 | 50 | 47 | 4.2 | 36 | 23.7 | 19 | NOV | 5.3 | 132 | 107 | 126 | 79 | 11 | 44 | 14 | 55 | 35 | 193 | 11 |
| | 17.3 | 1.7 | 9.2 | 39.4 | JUL | -23.3 | JAN | 3858 | 524 | 412 | 80 | JUL 10 | 72 | 80 | 50 | 47 | 4.2 | 36 | 23.7 | 19 | NOV | 5.3 | 132 | 107 | 126 | 79 | 11 | 44 | 14 | 55 | 35 | 193 | 11 |

See reference notes at end of table

ANNUAL CLIMATOLOGICAL DATA METRIC UNITS

| State and Station | Temperature | | | | Precipitation | | | | Relative humidity | | | | Wind | | | | Number of days | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------|---------------------|---------------|----------|------|---------------------|--------|---------------------|-------------|-------------------|----------------------|-----------|--------|---------------|----------------------|-------------------------------|--------|-------------------|------------------------|-----------------|----------------------------|-----------------------|-----|------|------|--------|-------|-----|-----|-----|-----|-----|-----|----|----|----|-----|-----|-----|----|--|
| | Averages | | Extremes | | Heating degree days | | Cooling degree days | | Snowfall | | 700mm EST | | Average speed | | Fastest mile (1.6 kilometers) | | Sunrise to sunset | | Thunderstorms | | Heavy fog | | | | | | | | | | | | | | | | | | | |
| | Daily maximum | Daily minimum | Annual | Date | Lowest | Date | Base 18.3°C | Base 18.3°C | Total | Greatest in 24 hours | Date (s) | Mm | Total | Greatest in 24 hours | Date (s) | Mm | Clear, 0-3 | Partly cloudy, 0.4-0.7 | Cloudy, 0.8-1.0 | Precipitation 25mm or more | Snowfall 25mm or more | | | | | | | | | | | | | | | | | | | |
| | °C | °C | °C | °C | °C | °C | °C | °C | Mm | Mm | (s) | Mm | Mm | Mm | (s) | Mm | Mm | h:m | h:m | h:m | h:m | h:m | | | | | | | | | | | | | | | | | | |
| NEBRASKA | 17.2 | 4.6 | 10.9 | 38.9 | JUL 1 | -26.1 | 20 | 3439 | 781 | 642 | 68 | 1-2 | 358 | 114 | 18-19 | MAR 7 | 5.7 | 116 | 134 | 145 | 99 | 5 | 47 | 19 | 4.9 | 12 | 143 | 18 | | | | | | | | | | | | |
| | 15.7 | 4.4 | 8.1 | 37.8 | JUL 1 | -23.3 | 8 | 4050 | 367 | 305 | 46 | 1-2 | 1331 | 251 | 37-18 | JUN 2 | 5.4 | 121 | 107 | 137 | 77 | 16 | 32 | 8 | 4.2 | 34 | 153 | 15 | | | | | | | | | | | | |
| | 15.8 | 4.4 | 8.1 | 41.1 | AUG 26 | -28.3 | 9 | 4216 | 552 | 351 | 31 | 11-12 | 973 | 208 | 12 | APR 12 | 5.3 | 113 | 99 | 133 | 67 | 8 | | | 5.5 | 52 | 192 | 29 | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NEVADA | 16.2 | 1.7 | 7.2 | 36.7 | AUG 12 | -26.7 | 6 | 4208 | 210 | 370 | 105 | AUG 10 | 927 | 142 | DEC 16 | DEC 1 | 5.6 | 121 | 97 | 147 | 92 | 12 | 23 | 4 | 4.6 | 20 | 227 | 14 | | | | | | | | | | | | |
| | 15.7 | 2.4 | 6.6 | 34.4 | JUN 25 | -24.4 | 25 | 4344 | 128 | 272 | 26 | 16-17 | 1308 | 322 | 16-17 | DEC 1 | 5.7 | 113 | 139 | 113 | 84 | 12 | 43 | 1 | 21 | 16 | 238 | 14 | | | | | | | | | | | | |
| | 26.2 | 11.5 | 18.8 | 46.1 | JUN 25 | -10.0 | 4 | 1413 | 1630 | 109 | 23 | 13-14 | T | T | 19 | 4 | 30 | 37 | 27 | 19 | 3.8 | 1.2 | 24 | 23.7 | 5 | 0 | 122 | 0 | | | | | | | | | | | | |
| | 20.4 | 7 | 10.6 | 39.4 | AUG 10 | -17.2 | 23 | 3101 | 322 | 177 | 19 | 12-16 | 521 | 239 | DEC 1 | 5.3 | 71 | 45 | 32 | 2.6 | 4.7 | 26 | 19.2 | 5 | 9 | 10 | 80 | 11 | 161 | 0 | | | | | | | | | | |
| WISCONSIN | 18.8 | -3 | 9.3 | 39.4 | JUL 19 | -22.8 | 3 | 3591 | 331 | 231 | 17 | 26 | 439 | 173 | 26 | APR 17 | 5.6 | 128 | 91 | 146 | 73 | 5 | 21 | 1 | 71 | 12 | 202 | 6 | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NEW HAMPSHIRE | 13.9 | 7 | 7.3 | 35.6 | AUG 16 | -30.0 | 20 | 4232 | 272 | 881 | 52 | FEB 17 | 1674 | 218 | 17 | DEC 1 | 8.5 | 84 | 57 | 68 | 2.9 | 1.0 | 29 | 18.8 | NW | 15 | 7 | 66 | 161 | 29 | | | | | | | | | | |
| | 1.1 | -6.8 | -2.8 | 19.4 | 28 | -36.1 | 21 | 7668 | 0 | 2870 | 264 | 10-11 | 9782 | 686 | 10-11 | FEB 10 | 85 | 85 | 84 | 86 | 14.4 | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NEW JERSEY | 16.8 | 6.7 | 11.8 | 33.9 | SEP 6 | -16.1 | 1 | 2865 | 539 | 990 | 54 | 1-22 | 467 | 132 | 7 | JAN 2 | 82 | 81 | 59 | 73 | 4.7 | 1.4 | 26 | 19.7 | 19 | 2 | 19 | 15 | 107 | 0 | | | | | | | | | | |
| | 16.7 | 8.1 | 12.4 | 34.4 | SEP 23 | -16.7 | 9 | 2802 | 717 | 874 | 50 | 1-2 | 554 | 104 | 14-15 | APR 1 | 72 | 73 | 55 | 63 | 4.6 | 1.3 | 28 | 17.0 | 28 | 3 | 6.2 | 22 | 25 | 94 | 0 | | | | | | | | | |
| | 16.4 | 7.8 | 12.2 | 34.4 | SEP 23 | -15.6 | 94 | 2851 | 668 | 859 | 57 | 21-22 | 465 | 109 | 6-7 | JAN 1 | 6.1 | 97 | 109 | 159 | 119 | 8 | | | | 18 | 31 | 92 | 0 | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NEW MEXICO | 21.2 | 5.4 | 13.3 | 37.8 | JUL 14 | -16.1 | 1 | 2531 | 757 | 160 | 25 | AUG 8 | 178 | 69 | 21 | FEB 1 | 46 | 57 | 35 | 26 | 4.3 | 2 | 29 | 24.1 | NW | 8 | 7 | 73 | 3 | 138 | 0 | | | | | | | | | |
| | 19.3 | 3.1 | 11.2 | 36.1 | JUL 7 | -19.4 | 6 | 3011 | 479 | 263 | 28 | 17 | 650 | 124 | 30-31 | MAR 11 | 67 | 37 | 37 | | | | | | | | | | | | | | | | | | | | | |
| | 23.9 | 5.9 | 14.9 | 40.6 | JUL 11 | -17.8 | 7 | 2078 | 900 | 219 | 38 | 23-24 | 180 | 71 | 11 | JAN 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NEW YORK | 14.6 | 1.8 | 8.2 | 33.9 | AUG 16 | -31.1 | 19 | 3979 | 350 | 775 | 40 | 17-18 | 1798 | 318 | 16-17 | DEC 1 | 79 | 78 | 56 | 67 | 3.7 | 1.1 | 26 | 18.8 | W | 3 | 21 | 11 | 61 | 154 | 29 | | | | | | | | | |
| | 11.6 | 3.4 | 7.5 | 30.0 | AUG 16 | -21.7 | 22 | 4111 | 207 | 853 | 58 | DEC 1 | 2103 | 358 | 16-17 | DEC 1 | 81 | 86 | 68 | 71 | 4.4 | 1.4 | 25 | 17.4 | W | 7 | 33 | 59 | 0 | 71 | 141 | 7 | | | | | | | | |
| | 13.1 | 4.2 | 8.7 | 31.1 | SEP 15 | -22.2 | 15 | 3768 | 333 | 882 | 41 | 19-20 | 2766 | 201 | 26-27 | DEC 1 | 81 | 65 | 72 | 4.5 | 1.8 | 25 | 18.3 | SW | 26 | 7 | 40 | 96 | 229 | 181 | 38 | 41 | 13 | 0 | 65 | 138 | 9 | | | |
| | 16.5 | 8.2 | 12.4 | 34.4 | AUG 22 | -16.1 | 9 | 2831 | 724 | 896 | 67 | 10 | 538 | 102 | 29 | MAR 1 | 71 | 73 | 55 | 63 | 3.9 | 0.8 | 30 | 16.1 | NE | 17 | 9 | 24 | 22 | 29 | 91 | 0 | | | | | | | | |
| NEW YORK KENNEDY | 16.0 | 8.2 | 12.1 | 33.9 | 24 | -14.4 | 9 | 2854 | 653 | 741 | 39 | AUG 30 | 394 | 109 | 14-15 | APR 26 | 75 | 74 | 58 | 69 | 5.5 | 1.3 | 28 | 19.7 | 26 | APR 2 | 6.1 | 94 | 114 | 157 | 104 | 6 | 17 | 34 | 13 | 24 | 95 | 0 | | |
| | 16.1 | 8.6 | 12.4 | 33.9 | 23 | -14.4 | 9 | 2793 | 687 | 695 | 50 | 23 | 460 | 89 | 29 | MAR 29 | 67 | 69 | 54 | 59 | 5.3 | 1.2 | 30 | 21.0 | F | 17 | 6.2 | 92 | 118 | 155 | 112 | 8 | 24 | 11 | 22 | 24 | 88 | 0 | | |
| | NEW YORK LA GUARDIA | 16.1 | 8.6 | 12.4 | 33.9 | APR 30 | -22.2 | 44 | 3789 | 391 | 960 | 45 | 30 | 3043 | 310 | 13 | JAN 13 | 80 | 81 | 63 | 69 | 4.1 | 1.7 | 25 | 18.8 | SW | 26 | 7.1 | 52 | 116 | 197 | 166 | 37 | 32 | 13 | 11 | 63 | 134 | 14 | |
| | ROCHESTER | 14.0 | 3.6 | 8.8 | 33.9 | AUG 30 | -22.2 | 44 | 3789 | 391 | 960 | 45 | 30 | 3043 | 310 | 13 | JAN 13 | 80 | 81 | 63 | 69 | 4.1 | 1.7 | 25 | 18.8 | SW | 26 | 7.1 | 52 | 116 | 197 | 166 | 37 | 32 | 13 | 11 | 63 | 134 | 14 | |
| SYRACUSE | 13.2 | 2.9 | 8.1 | 32.2 | AUG 16 | -22.2 | 22 | 3919 | 247 | 971 | 61 | 2 | 3081 | 239 | 16-17 | DEC 1 | 81 | 81 | 62 | 70 | 4.2 | 1.0 | 25 | 19.2 | W | 20 | 7.2 | 56 | 92 | 217 | 167 | 39 | 34 | 8 | 1 | 65 | 137 | 13 | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NORTH CAROLINA | 20.2 | 6.7 | 13.4 | 35.0 | JUL 4 | -20.0 | 3 | 2290 | 562 | 837 | 61 | 29-30 | 318 | 112 | 31 | DEC 1 | 89 | 92 | 59 | 71 | 3.3 | 0.9 | 35 | 19.7 | 22 | APR 2 | 5.9 | 88 | 139 | 138 | 116 | 3 | 48 | 83 | 12 | 10 | 100 | 3 | | |
| | 20.3 | 12.2 | 16.3 | 33.3 | AUG 2 | -11.1 | 23 | 1646 | 943 | 1440 | 100 | 10-11 | 130 | 64 | JAN 11 | DEC 1 | 84 | 82 | 67 | 80 | 5.6 | 0.5 | 35 | 21.5 | SW | 17 | 6.1 | 106 | 91 | 168 | 122 | 3 | 48 | 25 | 3 | 4 | 43 | 0 | | |
| | 21.5 | 9.6 | 15.6 | 36.7 | JUL 4 | -15.6 | 10 | 1943 | 996 | 909 | 80 | 29-30 | 183 | 64 | 11-12 | JAN 11 | 75 | 83 | 53 | 59 | 3.1 | 0.2 | 25 | 15.2 | NW | 44 | 5.8 | 95 | 132 | 138 | 107 | 3 | 35 | 30 | 49 | 7 | 79 | 0 | | |
| | 20.8 | 8.7 | 14.8 | 36.7 | JUL 4 | -16.7 | 9 | 2143 | 901 | 1087 | 103 | 9-10 | 241 | 69 | 31 | DEC 1 | 79 | 82 | 55 | 64 | 3.1 | 0.5 | 26 | 17.0 | W | 23 | 6.1 | 94 | 122 | 149 | 111 | 4 | 52 | 26 | 36 | 12 | 81 | 0 | | |
| GREENSBORO | 21.5 | 9.6 | 15.6 | 36.7 | JUL 4 | -16.7 | 9 | 2143 | 901 | 1087 | 103 | 9-10 | 241 | 69 | 31 | DEC 1 | 79 | 82 | 55 | 64 | 3.1 | 0.5 | 26 | 17.0 | W | 23 | 6.1 | 94 | 122 | 149 | 111 | 4 | 52 | 26 | 36 | 12 | 81 | 0 | | |
| | 20.7 | 7.9 | 14.3 | 35.0 | JUN 18 | -17.8 | 22 | 2158 | 768 | 915 | 56 | AUG 10 | 66 | 25 | DEC 1 | 78 | 82 | 55 | 66 | 4.2 | 0.4 | 24 | 15.6 | 19 | JUN 20 | 5.9 | 104 | 108 | 153 | 101 | 2 | 48 | 39 | 17 | 10 | 96 | 2 | | | |
| | 20.7 | 7.9 | 14.3 | 35.0 | JUN 18 | -17.8 | 22 | 2158 | 768 | 915 | 56 | AUG 10 | 66 | 25 | DEC 1 | 78 | 82 | 55 | 66 | 4.2 | 0.4 | 24 | 15.6 | 19 | JUN 20 | 5.9 | 104 | 108 | 153 | 101 | 2 | 48 | 39 | 17 | 10 | 96 | 2 | | | |
| | 23.1 | 11.6 | 17.3 | 36.7 | JUL 19 | -10.6 | 10 | 1454 | 1158 | 1343 | 90 | 16-17 | 155 | 102 | 29 | DEC 1 | 88 | 88 | 60 | 78 | 3.4 | 0.2 | 26 | 19.7 | SW | 2 | 6.0 | 105 | 103 | 157 | 123 | 2 | 49 | 34 | 41 | 4 | 47 | 0 | | |

See reference notes at end of table

ANNUAL CLIMATOLOGICAL DATA METRIC UNITS

YEAR 1971

| State and Station | Temperature | | | | Precipitation | | Relative humidity | | Wind | | | Number of days | | | | | | | | | | | | | | | | | | | | |
|------------------------------|--------------------|--------|----------|--------|----------------------------------|----------------------------------|-------------------|-------|---------------------------------|--------|-------------------|-----------------------------|-------------------------|-------------------------------|------------------------|---------------|-----------|----------------------------|----------------|-----------------------------------|-----|-----------|-------|-----------|-------|-----|-----|------|-----|----|---|----|
| | Averages | | Extremes | | Cooling degree days
Base 65°F | Heating degree days
Base 65°F | Snow 1 | | Fastest mile
(16 kilometers) | | Average sky cover | Sunrise to sunset
0-0-07 | Partly cloudy
0-4-07 | Precipitation
25mm or more | Snow
1 inch or more | Thunderstorms | Heavy fog | Max temp 32.2 °C and above | 0 °C and below | Min Temp below -17.8 °C and below | | | | | | | | | | | | |
| | Daytime
maximum | Annual | Highest | Lowest | | | Date | °C | °C | °C | | | | | | | | | | | °C | Direction | Speed | Direction | Speed | Mps | Mps | Date | % | % | % | |
| NORTH DAKOTA
BISMARCK | 11.2 | 24.0 | 4.5 | 39.4 | 430 | 474 | JUN 14 | 1412 | 137 | NOV 18 | 76 | 82 | 59 | 4.6 | 33 | 23.2 | NE | 6.1 | 108 | 94 | 164 | 106 | 15 | 27 | 14 | 28 | 79 | 186 | 61 | | | |
| | 9.8 | 14.6 | 4.2 | 36.7 | 366 | 455 | SEP 20 | 1102 | 218 | APR 19 | 79 | 83 | 67 | 5.2 | 29 | 24.1 | N | 17 | 86.2 | 98 | 104 | 183 | 95 | 13 | 36 | 11 | 20 | 107 | 178 | 49 | | |
| | 10.9 | 4.3 | 4.3 | 37.2 | 334 | 5386 | 322 | 436 | 41 | 8-9 | 1237 | 193 | 15 | 76 | 81 | 59 | 5.7 | 4.4 | 159 | 83 | 171 | 109 | 19 | 24 | 9 | 13 | 88 | 109 | 59 | | | |
| SOUTH DAKOTA
SIOUX FALLS | 14.3 | 4.9 | 10.1 | 32.8 | 971 | 3407 | JUN 14-15 | 919 | 79 | MAR 22 | 74 | 77 | 59 | 4.1 | 1.4 | 25 | 17.0 | NE | 7.3 | 50 | 189 | 256 | 154 | 14 | 46 | 17 | 1 | 46 | 26 | 9 | | |
| | 17.8 | 7.2 | 12.6 | 36.7 | 1051 | 731 | NOV 8 | 1016 | 102 | 23-24 | 74 | 76 | 62 | 4.7 | 1.8 | 22 | 14.8 | SW | 7.4 | 48 | 181 | 216 | 154 | 15 | 38 | 11 | 25 | 34 | 94 | 8 | | |
| | 16.2 | 7.2 | 11.0 | 35.0 | 1065 | 54 | 1-2 | 892 | 122 | 12-13 | 76 | 79 | 60 | 4.1 | 1.1 | 22 | 25.0 | NE | 7.1 | 62 | 90 | 213 | 145 | 12 | 56 | 22 | 11 | 47 | 127 | 7 | | |
| MINNESOTA
DULUTH | 10.6 | 7.1 | 10.4 | 30.7 | 691 | 3107 | JAN 8 | 843 | 81 | FEB 2 | 76 | 80 | 62 | 4.3 | 1.4 | 23 | 27.3 | NE | 6.2 | 66 | 95 | 254 | 130 | 15 | 40 | 12 | 13 | 36 | 128 | 9 | | |
| | 15.6 | 7.2 | 10.6 | 34.4 | 884 | 334 | JAN 14 | 688 | 76 | JAN 14 | 78 | 80 | 60 | 4.3 | 1.4 | 19.2 | 24 | 7 | 7.0 | 62 | 119 | 184 | 135 | 10 | 55 | 43 | 12 | 31 | 128 | 8 | | |
| | 14.4 | 14.4 | 8.7 | 34.4 | 961 | 3749 | 394 | 1179 | 145 | 17-18 | 80 | 82 | 62 | 4.3 | 1.3 | 25 | 24.1 | NE | 6.9 | 59 | 125 | 181 | 145 | 18 | 41 | 26 | 4 | 56 | 143 | 18 | | |
| WISCONSIN
MILWAUKEE | 14.0 | 14.2 | 8.2 | 34.4 | 844 | 3734 | 36 | 1435 | 89 | 10 | 83 | 85 | 66 | 7.1 | 4.3 | 1.3 | 24 | 13.7 | 7.4 | 60 | 97 | 218 | 167 | 24 | 48 | 38 | 0 | 37 | 134 | 12 | | |
| | 17.4 | 7.2 | 10.1 | 34.4 | 847 | 2201 | JAN 8 | 69 | 43 | 28 | 72 | 79 | 54 | 5.3 | 1.4 | 17 | 20.6 | 30 | 5.8 | 114 | 99 | 162 | 66 | 1 | 47 | 22 | 80 | 8 | 81 | 2 | | |
| | 21.3 | 2.1 | 16.2 | 43.3 | 864 | 1201 | MAR 19 | 371 | 226 | 16 | 75 | 82 | 57 | 5.5 | 4.3 | 1.3 | 18 | 17.0 | 22 | 5.7 | 117 | 100 | 168 | 76 | 4 | 35 | 12 | 84 | 11 | 87 | 3 | |
| ILLINOIS
CHICAGO | 14.5 | 7.2 | 10.1 | 34.4 | 1791 | 2985 | FEB 5 | 46 | 46 | 3 | 87 | 90 | 79 | 7.3 | 3.9 | 4.8 | 22 | 14.3 | 18 | 7.1 | 65 | 76 | 274 | 183 | 1 | 8 | 34 | 1 | 0 | 46 | 0 | |
| | 15.1 | 7.2 | 10.1 | 34.4 | 391 | 4217 | JAN 25 | 2671 | 1361 | 205 | 20-21 | 60 | 71 | 55 | 4.3 | 3.2 | 1.3 | 10 | | 5.6 | 122 | 96 | 167 | 95 | 19 | 1 | 18 | 21 | 204 | 3 | | |
| | 14.2 | 7.2 | 10.1 | 34.4 | 1272 | 226 | JAN 5 | 8 | 5 | JAN 5 | 80 | 87 | 71 | 58 | 3.6 | 7 | 23 | 17.4 | 18 | 6.8 | 88 | 76 | 256 | 148 | 4 | 66 | 2 | 1 | 49 | 0 | | |
| MICHIGAN
ANN ARBOR | 13.9 | 1.7 | 5.5 | 33.2 | 924 | 4487 | 151 | 984 | 18 | 8-9 | 4161 | 384 | 18-19 | 64 | 56 | | | | 7.1 | 65 | 76 | 274 | 183 | 1 | 8 | 34 | 1 | 0 | 46 | 0 | | |
| | 16.2 | 7.2 | 10.1 | 34.4 | 591 | 2486 | 675 | 591 | 40 | 23-24 | 66 | 38 | 28 | 69 | 83 | 64 | 45 | 2.1 | 4.8 | 5.7 | 137 | 63 | 165 | 138 | 1 | 8 | 32 | 76 | 4 | 58 | 0 | |
| | 16.8 | 7.2 | 10.1 | 34.4 | 310 | 3161 | 479 | 310 | 18 | 23-24 | 480 | 119 | 15-16 | 63 | 69 | 56 | 48 | 4.2 | 1.7 | 6.0 | 187 | 90 | 168 | 106 | 6 | 8 | 55 | 44 | 11 | 44 | 0 | |
| NEW YORK
ALBANY | 17.1 | 7.2 | 10.1 | 34.4 | 1050 | 2482 | 214 | 1050 | 36 | 25 | 20 | 71 | 81 | 69 | 55 | 3.3 | 4.1 | 48 | 20.4 | 1 | 22 | 6.6 | 91 | 32 | 252 | 44 | 1 | 14 | 37 | 16 | 1 | 11 |
| | 17.8 | 7.2 | 10.1 | 34.4 | 1186 | 2782 | 163 | 1186 | 58 | 30-31 | 28 | 74 | 82 | 67 | 55 | 3.3 | 4.8 | 23 | 14.3 | 19 | 22 | 6.5 | 89 | 19 | 127 | 135 | 2 | 4 | 22 | 28 | 1 | 41 |
| | 13.5 | 7.2 | 10.1 | 34.4 | 1299 | 3546 | 84 | 23-24 | 2428 | 310 | 1-2 | 68 | 59 | | | | | | 20.2 | 5.6 | 143 | 59 | 163 | 124 | 26 | 4 | 18 | 1.7 | 1 | 1 | | |
| MASSACHUSETTS
BOSTON | 10.0 | 23.2 | 10.1 | 34.4 | 2241 | 4871 | JAN 17 | 126 | 24-25 | 0 | 0 | 76 | 90 | 93 | 77 | 3.9 | 3.4 | 9 | 13.4 | JUN 28 | 8.1 | 4 | 125 | 276 | 261 | 0 | 41 | 0 | 13 | 1 | 1 | |
| | 10.8 | 23.0 | 10.1 | 34.4 | 2928 | 585 | DEC 26 | 585 | 98 | 26-27 | 0 | 0 | 77 | 79 | 78 | 76 | 7.4 | 6.9 | 5.9 | 111 | 135 | 121 | 151 | 0 | 5 | 0 | 0 | 1 | 1 | | | |
| | 11.1 | 24.2 | 10.1 | 34.4 | 2910 | 112 | 13-14 | 0 | 0 | 0 | 78 | 89 | 91 | 86 | 3.4 | 1.8 | 8 | 13.4 | OCT 24 | 9.2 | 1 | 47 | 317 | 265 | 0 | 31 | 0 | 6 | 1 | 1 | | |
| PENNSYLVANIA
PHILADELPHIA | 10.6 | 24.2 | 10.1 | 34.4 | 3558 | 2127 | 214 | 3558 | 2127 | 123 | 10-17 | 0 | 0 | 77 | 81 | 82 | 76 | 6.5 | 6.1 | 8.6 | 16 | 76 | 273 | 222 | 0 | 11 | 0 | 6 | 1 | 1 | | |
| | 9.6 | 19.4 | 4.5 | 37.4 | 1337 | 2259 | 102 | 23 | 0 | 0 | 79 | 82 | 82 | 74 | 6.5 | 6.1 | 7 | 15.4 | NOV 10 | 8.2 | 7 | 112 | 266 | 243 | 0 | 14 | 0 | 7 | 1 | 1 | | |
| | 9.6 | 19.4 | 4.5 | 37.4 | 3428 | 228 | 5-6 | 0 | 0 | 0 | 84 | 88 | 88 | 77 | 3.6 | 2.1 | 11 | 17.0 | NOV 11 | 7.7 | 42 | 140 | 215 | 263 | 0 | 20 | 0 | 7 | 1 | 1 | | |
| NEW JERSEY
TRENTON | 10.4 | 23.4 | 10.1 | 34.4 | 4312 | 3236 | 109 | 17-18 | 0 | 0 | 78 | 87 | 88 | 77 | 3.4 | 2.6 | 9 | 11.6 | NOV 23 | 8.8 | 1 | 74 | 209 | 294 | 0 | 24 | 0 | 21 | 1 | 1 | | |
| | 10.6 | 24.2 | 10.1 | 34.4 | 3665 | 167 | 18-19 | 0 | 0 | 0 | 76 | 83 | 85 | 76 | 6.5 | 3.4 | 7 | 12.5 | DEC 29 | 9.2 | 2 | 40 | 133 | 264 | 0 | 20 | 0 | 14 | 1 | 1 | | |
| | 10.8 | 24.2 | 10.1 | 34.4 | 909 | 99 | 18-19 | 0 | 0 | 0 | 70 | 79 | 81 | 64 | 5.9 | 4.9 | 8 | 13.6 | MAY 29 | 11 | 5.8 | 134 | 134 | 174 | 0 | 3 | 0 | 11 | 1 | 1 | | |
| CALIFORNIA
SAN FRANCISCO | 10.6 | 24.2 | 10.1 | 34.4 | 2854 | 192 | 20-21 | 0 | 0 | 0 | 75 | 86 | | | | | | | NOV 23 | 8.2 | 16 | 71 | 254 | 256 | 0 | 12 | 0 | 1 | 1 | 1 | | |

See reference notes at end of table

ANNUAL CLIMATOLOGICAL DATA

METRIC UNITS

| State and Station | Temperature | | | | Precipitation | | | | Relative humidity | | | | Wind | | | | Number of days | | | | | | | | | | | |
|-------------------|---------------|---------------|----------|---------|---------------------|--------|---------------------|-----------|-------------------|----------|----------------------|----------|---------------|-----|------------------------------|-------|-------------------|--------------------|--------------|-----------|-----|----|----|----|-----|-----|-----|----|
| | Averages | | Extremes | | Heating degree days | | Cooling degree days | | Total | | Greatest in 24 hours | | Average speed | | Fastest mile (16 kilometers) | | Sunrise to sunset | | Max. temp | | | | | | | | | |
| | Daily maximum | Daily minimum | Annual | Highest | Lowest | Date | Date | Base 18°C | Base 18°C | Date (s) | Greatest in 24 hours | Date (s) | Mph | Mph | Direction | Speed | Clear, 0-3 | Partly cloudy, 4-7 | Cloudy, 8-10 | Heavy fog | | | | | | | | |
| PENNSYLVANIA | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ALLENTOWN | 15.2 | 6.9 | 31.9 | 31.9 | -20.0 | SEP 23 | APR 12 | 3393 | 664 | 1096 | 60 | APR 12 | 856 | 259 | MAR 29 | 27 | 98 | 98 | 169 | 117 | 10 | 36 | 28 | 18 | 46 | 112 | 3 | |
| PHILADELPHIA | 12.4 | 3.8 | 32.0 | 32.0 | -25.0 | SEP 24 | JUL 14 | 1913 | 248 | 1094 | 82 | JUL 14 | 2170 | 391 | 23-24 | 28 | 74 | 47 | 106 | 218 | 26 | 48 | 15 | 0 | 65 | 162 | 13 | |
| PHILADELPHIA | 16.8 | 6.9 | 31.9 | 31.9 | -17.8 | SEP 24 | APR 12 | 2976 | 698 | 1110 | 44 | APR 12 | 1044 | 221 | MAR 29 | 28 | 64 | 98 | 173 | 132 | 12 | 48 | 14 | 24 | 28 | 117 | 2 | |
| PITTSBURGH | 17.1 | 7.8 | 32.5 | 32.5 | -17.2 | SEP 24 | APR 12 | 2815 | 766 | 994 | 85 | APR 12 | 348 | 124 | FEB 8 | 27 | 64 | 97 | 171 | 133 | 6 | 18 | 17 | 21 | 25 | 100 | 0 | |
| PITTSBURGH | 15.5 | 5.3 | 30.4 | 30.4 | -21.1 | JUL 1 | APR 12 | 3305 | 475 | 962 | 47 | APR 12 | 1321 | 117 | MAR 29 | 26 | 74 | 47 | 106 | 212 | 17 | 41 | 24 | 2 | 47 | 116 | 8 | |
| PITTSBURGH | 16.5 | 6.8 | 31.7 | 31.7 | -20.0 | SEP 24 | APR 12 | 2976 | 640 | 933 | 54 | APR 12 | 864 | 112 | MAR 29 | 27 | 64 | 97 | 171 | 133 | 6 | 18 | 17 | 21 | 25 | 100 | 0 | |
| SCRANTON | 13.6 | 4.1 | 31.1 | 31.1 | -20.0 | SEP 24 | APR 12 | 3706 | 318 | 801 | 40 | APR 12 | 1341 | 282 | MAR 29 | 26 | 64 | 97 | 171 | 133 | 6 | 18 | 17 | 21 | 25 | 100 | 0 | |
| WILLIAMSPORT | 15.6 | 5.1 | 32.2 | 32.2 | -25.0 | SEP 20 | APR 12 | 3316 | 457 | 1079 | 74 | APR 12 | 1547 | 254 | MAR 29 | 26 | 64 | 97 | 171 | 133 | 6 | 18 | 17 | 21 | 25 | 100 | 0 | |
| RHODE ISLAND | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BLOCK ISLAND | 13.1 | 6.4 | 28.9 | 28.9 | -16.1 | JUL 2 | FEB 8 | 3319 | 259 | 1021 | 64 | FEB 8 | 495 | 152 | MAR 31 | 30 | 64 | 105 | 101 | 159 | 123 | 13 | 20 | 17 | 7 | 50 | 136 | 3 |
| PROVIDENCE | 16.7 | 6.7 | 32.3 | 32.3 | -18.9 | JUL 2 | APR 12 | 3484 | 406 | 1154 | 80 | APR 12 | 1217 | 198 | MAR 29 | 26 | 64 | 105 | 101 | 159 | 123 | 13 | 20 | 17 | 7 | 50 | 136 | 3 |
| SOUTH CAROLINA | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CHARLESTON | 24.2 | 12.2 | 37.8 | 37.8 | -11.7 | JUL 9 | AUG 6 | 4986 | 429 | 396 | 39 | APR 12 | 1476 | 381 | APR 12 | 36 | 54 | 112 | 109 | 144 | 115 | 0 | 54 | 34 | 69 | 3 | 44 | 0 |
| COLUMBIA | 24.8 | 11.1 | 37.9 | 37.9 | -15.0 | JUL 10 | APR 12 | 4591 | 500 | 564 | 81 | APR 12 | 1313 | 173 | APR 12 | 30 | 54 | 109 | 108 | 148 | 102 | 1 | 52 | 42 | 102 | 2 | 67 | 0 |
| GRANDVILLE-SPRING | 22.5 | 9.3 | 37.2 | 37.2 | -17.2 | JUL 9 | APR 12 | 4356 | 396 | 454 | 54 | APR 12 | 1953 | 406 | APR 12 | 30 | 54 | 109 | 108 | 148 | 102 | 1 | 52 | 42 | 102 | 2 | 67 | 0 |
| SOUTH DAKOTA | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ABERDEEN | 12.5 | -1.1 | 39.4 | 39.4 | -37.2 | SEP 6 | APR 12 | 4717 | 479 | 695 | 80 | APR 12 | 1113 | 295 | APR 12 | 24 | 54 | 126 | 84 | 155 | 107 | 3 | 46 | 30 | 29 | 80 | 172 | 39 |
| HURON | 13.5 | 3.3 | 36.9 | 36.9 | -27.2 | JUL 8 | APR 12 | 4356 | 396 | 454 | 54 | APR 12 | 1953 | 406 | APR 12 | 30 | 54 | 109 | 108 | 148 | 102 | 1 | 52 | 42 | 102 | 2 | 67 | 0 |
| RAPID CITY | 14.4 | 2.2 | 36.9 | 36.9 | -27.2 | JUL 8 | APR 12 | 4356 | 396 | 454 | 54 | APR 12 | 1953 | 406 | APR 12 | 30 | 54 | 109 | 108 | 148 | 102 | 1 | 52 | 42 | 102 | 2 | 67 | 0 |
| SIoux FALLS | 12.8 | 3.3 | 36.9 | 36.9 | -27.2 | JUL 8 | APR 12 | 4356 | 396 | 454 | 54 | APR 12 | 1953 | 406 | APR 12 | 30 | 54 | 109 | 108 | 148 | 102 | 1 | 52 | 42 | 102 | 2 | 67 | 0 |
| TENNESSEE | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BRISTOL | 20.1 | 7.6 | 35.0 | 35.0 | -23.3 | JUL 3 | APR 12 | 2338 | 753 | 866 | 47 | APR 12 | 587 | 114 | APR 12 | 25 | 64 | 132 | 152 | 136 | 8 | 49 | 47 | 29 | 12 | 89 | 6 | |
| CHATTANOOGA | 21.2 | 8.8 | 36.9 | 36.9 | -15.6 | JUL 3 | APR 12 | 2137 | 977 | 1137 | 61 | APR 12 | 287 | 86 | APR 12 | 25 | 64 | 132 | 152 | 136 | 8 | 49 | 47 | 29 | 12 | 89 | 6 | |
| KNOXVILLE | 20.5 | 9.4 | 36.1 | 36.1 | -15.6 | JUL 3 | APR 12 | 2137 | 977 | 1137 | 61 | APR 12 | 287 | 86 | APR 12 | 25 | 64 | 132 | 152 | 136 | 8 | 49 | 47 | 29 | 12 | 89 | 6 | |
| MEMPHIS | 21.5 | 11.2 | 37.8 | 37.8 | -13.9 | JUL 7 | APR 12 | 2063 | 909 | 1103 | 61 | APR 12 | 605 | 157 | APR 12 | 25 | 64 | 132 | 152 | 136 | 8 | 49 | 47 | 29 | 12 | 89 | 6 | |
| NASHVILLE | 20.8 | 9.0 | 36.1 | 36.1 | -20.0 | JUL 2 | APR 12 | 2150 | 962 | 1192 | 82 | APR 12 | 1270 | 68 | APR 12 | 25 | 64 | 132 | 152 | 136 | 8 | 49 | 47 | 29 | 12 | 89 | 6 | |
| OAK RIDGE R | 20.2 | 8.3 | 36.7 | 36.7 | -17.8 | JUL 3 | APR 12 | 2218 | 802 | 1326 | 143 | APR 12 | 480 | 132 | APR 12 | 25 | 64 | 132 | 152 | 136 | 8 | 49 | 47 | 29 | 12 | 89 | 6 | |
| TEXAS | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ABILENE | 24.3 | 11.2 | 39.4 | 39.4 | -11.7 | JUL 6 | JUN 1 | 1517 | 1371 | 455 | 49 | JUN 1 | 191 | 155 | JUN 1 | 30 | 54 | 134 | 102 | 129 | 63 | 2 | 37 | 8 | 100 | 3 | 58 | 0 |
| AMARILLO | 21.8 | 6.7 | 34.0 | 34.0 | -17.2 | JUL 6 | JUN 1 | 2372 | 954 | 243 | 35 | JUN 1 | 572 | 208 | JUN 1 | 30 | 54 | 134 | 102 | 129 | 63 | 2 | 37 | 8 | 100 | 3 | 58 | 0 |
| AUSTIN | 25.2 | 13.7 | 38.9 | 38.9 | -8.3 | JUL 10 | AUG 1 | 1054 | 1524 | 778 | 114 | AUG 1 | 38 | 38 | AUG 1 | 30 | 54 | 134 | 102 | 129 | 63 | 2 | 37 | 8 | 100 | 3 | 58 | 0 |
| BROWNSVILLE | 28.3 | 18.2 | 37.8 | 37.8 | -1.1 | JUL 24 | AUG 1 | 304 | 2159 | 672 | 65 | AUG 1 | 0 | 0 | AUG 1 | 30 | 54 | 134 | 102 | 129 | 63 | 2 | 37 | 8 | 100 | 3 | 58 | 0 |
| CORPUS CHRISTI | 26.7 | 16.6 | 37.2 | 37.2 | -3.3 | JUL 27 | AUG 1 | 577 | 1832 | 1003 | 162 | AUG 1 | 0 | 0 | AUG 1 | 30 | 54 | 134 | 102 | 129 | 63 | 2 | 37 | 8 | 100 | 3 | 58 | 0 |
| DALLAS | 24.3 | 13.7 | 39.4 | 39.4 | -8.3 | JUL 10 | AUG 1 | 1301 | 1607 | 872 | 55 | AUG 1 | 13 | 13 | AUG 1 | 30 | 54 | 134 | 102 | 129 | 63 | 2 | 37 | 8 | 100 | 3 | 58 | 0 |
| DEL RIO | 26.4 | 13.6 | 39.4 | 39.4 | -7.8 | JUL 6 | JUN 1 | 926 | 1593 | 470 | 140 | JUN 1 | T | T | JUN 1 | 30 | 54 | 134 | 102 | 129 | 63 | 2 | 37 | 8 | 100 | 3 | 58 | 0 |
| EL PASO | 25.7 | 9.8 | 40.6 | 40.6 | -10.0 | JUL 12 | JAN 7 | 1357 | 1213 | 154 | 15 | JAN 7 | 51 | 43 | JAN 7 | 30 | 54 | 134 | 102 | 129 | 63 | 2 | 37 | 8 | 100 | 3 | 58 | 0 |

See reference notes at end of table

ANNUAL CLIMATOLOGICAL DATA METRIC UNITS

YEAR 1959

| State and Station | Temperature | | | | Precipitation | | | | Relative humidity | | | | Wind | | | | Number of days | | | | | | | | | | | | |
|-------------------|---------------|---------------|----------|---------|---------------|--------|---------------------|------|---------------------|---------------|---------|---------|-----------|--------|-----------|----|----------------|--------------------|------------------------------|----------------------------|-------------------|---------------|-------------------|-------------------|----------------|----------------|--------------------|----|----|
| | Averages | | Extremes | | Total | | Cooling degree days | | Heating degree days | | Snow ft | | 1000m EST | | 7000m EST | | 7000m EST | | Fastest mile (16 kilometers) | | Average sky cover | | Sunrise to sunset | | Max temp | | Min temp | | |
| | Daily maximum | Daily minimum | Annual | Highest | Date | Lowest | Date | °C | Daily maximum | Daily minimum | Annual | Highest | Date | Lowest | Date | °C | Clear, 0-3 | Partly cloudy, 0-4 | Cloudy, 0-8 | Precipitation 25mm or more | Snow 25mm or more | Thunderstorms | Heavy fog | 32.2 °C and above | 0 °C and below | 0 °C and below | -17.8 °C and below | | |
| | °C | °C | °C | °C | | °C | | | °C | °C | °C | °C | | | | | | | | | | | | | | | | | |
| TEXAS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FORT WORTH | 24.2 | 12.4 | 18.3 | 40.0 | AUG 8 | - 10.6 | JAN 9 | 1387 | 1442 | 917 | 95 | 11 | SEP 1 | 20 | 20 | 20 | 128 | 88 | 149 | 74 | 0 | 36 | 14 | 86 | 2 | 43 | 0 | | |
| JACKSONVILLE | 23.1 | 18.0 | 20.6 | 34.4 | JUL 4 | - 2.8 | JAN 7 | 705 | 1561 | 1231 | 159 | 15 | MAY 1 | 1 | 1 | 1 | 19 | 82 | 71 | 73 | 0 | 0 | 0 | 9 | 0 | 4 | 0 | | |
| HOUSTON INTERCOM | 25.2 | 13.5 | 19.5 | 37.8 | JUL 4 | - 7.2 | JAN 7 | 973 | 1451 | 1224 | 119 | 15-16 | MAY 1 | 1 | 1 | 1 | 19 | 87 | 90 | 60 | 60 | 0 | 0 | 0 | 0 | 27 | 0 | | |
| LOUISIANA | 23.5 | 7.2 | 15.3 | 40.0 | JUL 11 | - 13.9 | JAN 7 | 2031 | 971 | 321 | 83 | 11 | MAY 1 | 1 | 1 | 1 | 170 | 102 | 20-21 | 57 | 69 | 41 | 34 | 5.0 | 1.2 | 22 | 19.2 | 15 | 11 |
| MIAMI | 24.8 | 9.2 | 16.9 | 39.4 | JUL 11 | - 11.7 | JAN 7 | 1567 | 1112 | 247 | 56 | 6-7 | MAY 1 | 1 | 1 | 1 | 178 | 102 | 20-21 | 59 | 69 | 39 | 34 | 4.9 | 1.5 | 17 | 13.4 | 28 | 11 |
| PORT ARTHUR | 26.1 | 15.4 | 20.8 | 39.4 | JUL 4 | - 7.2 | JAN 7 | 807 | 1757 | 1311 | 205 | 11-12 | MAY 1 | 1 | 1 | 1 | 178 | 102 | 20-21 | 59 | 69 | 39 | 34 | 4.9 | 1.5 | 17 | 13.4 | 28 | 11 |
| SAN ANGELO | 26.2 | 13.9 | 18.6 | 41.1 | AUG 1 | - 12.2 | JAN 7 | 1308 | 1436 | 327 | 33 | 17-18 | MAY 1 | 1 | 1 | 1 | 178 | 102 | 20-21 | 59 | 69 | 39 | 34 | 4.9 | 1.5 | 17 | 13.4 | 28 | 11 |
| SAN ANTONIO | 26.2 | 13.9 | 18.6 | 41.1 | AUG 1 | - 12.2 | JAN 7 | 1308 | 1436 | 327 | 33 | 17-18 | MAY 1 | 1 | 1 | 1 | 178 | 102 | 20-21 | 59 | 69 | 39 | 34 | 4.9 | 1.5 | 17 | 13.4 | 28 | 11 |
| SALENTIA | 26.0 | 15.2 | 20.6 | 37.8 | JUL 11 | - 6.7 | JAN 7 | 751 | 1646 | 1010 | 122 | 1-2 | MAY 1 | 1 | 1 | 1 | 178 | 102 | 20-21 | 59 | 69 | 39 | 34 | 4.9 | 1.5 | 17 | 13.4 | 28 | 11 |
| SALENTIA | 26.0 | 15.2 | 20.6 | 37.8 | JUL 11 | - 6.7 | JAN 7 | 751 | 1646 | 1010 | 122 | 1-2 | MAY 1 | 1 | 1 | 1 | 178 | 102 | 20-21 | 59 | 69 | 39 | 34 | 4.9 | 1.5 | 17 | 13.4 | 28 | 11 |
| SALENTIA | 26.0 | 15.2 | 20.6 | 37.8 | JUL 11 | - 6.7 | JAN 7 | 751 | 1646 | 1010 | 122 | 1-2 | MAY 1 | 1 | 1 | 1 | 178 | 102 | 20-21 | 59 | 69 | 39 | 34 | 4.9 | 1.5 | 17 | 13.4 | 28 | 11 |
| SALENTIA | 26.0 | 15.2 | 20.6 | 37.8 | JUL 11 | - 6.7 | JAN 7 | 751 | 1646 | 1010 | 122 | 1-2 | MAY 1 | 1 | 1 | 1 | 178 | 102 | 20-21 | 59 | 69 | 39 | 34 | 4.9 | 1.5 | 17 | 13.4 | 28 | 11 |
| SALENTIA | 26.0 | 15.2 | 20.6 | 37.8 | JUL 11 | - 6.7 | JAN 7 | 751 | 1646 | 1010 | 122 | 1-2 | MAY 1 | 1 | 1 | 1 | 178 | 102 | 20-21 | 59 | 69 | 39 | 34 | 4.9 | 1.5 | 17 | 13.4 | 28 | 11 |
| SALENTIA | 26.0 | 15.2 | 20.6 | 37.8 | JUL 11 | - 6.7 | JAN 7 | 751 | 1646 | 1010 | 122 | 1-2 | MAY 1 | 1 | 1 | 1 | 178 | 102 | 20-21 | 59 | 69 | 39 | 34 | 4.9 | 1.5 | 17 | 13.4 | 28 | 11 |
| SALENTIA | 26.0 | 15.2 | 20.6 | 37.8 | JUL 11 | - 6.7 | JAN 7 | 751 | 1646 | 1010 | 122 | 1-2 | MAY 1 | 1 | 1 | 1 | 178 | 102 | 20-21 | 59 | 69 | 39 | 34 | 4.9 | 1.5 | 17 | 13.4 | 28 | 11 |
| SALENTIA | 26.0 | 15.2 | 20.6 | 37.8 | JUL 11 | - 6.7 | JAN 7 | 751 | 1646 | 1010 | 122 | 1-2 | MAY 1 | 1 | 1 | 1 | 178 | 102 | 20-21 | 59 | 69 | 39 | 34 | 4.9 | 1.5 | 17 | 13.4 | 28 | 11 |
| SALENTIA | 26.0 | 15.2 | 20.6 | 37.8 | JUL 11 | - 6.7 | JAN 7 | 751 | 1646 | 1010 | 122 | 1-2 | MAY 1 | 1 | 1 | 1 | 178 | 102 | 20-21 | 59 | 69 | 39 | 34 | 4.9 | 1.5 | 17 | 13.4 | 28 | 11 |
| SALENTIA | 26.0 | 15.2 | 20.6 | 37.8 | JUL 11 | - 6.7 | JAN 7 | 751 | 1646 | 1010 | 122 | 1-2 | MAY 1 | 1 | 1 | 1 | 178 | 102 | 20-21 | 59 | 69 | 39 | 34 | 4.9 | 1.5 | 17 | 13.4 | 28 | 11 |
| SALENTIA | 26.0 | 15.2 | 20.6 | 37.8 | JUL 11 | - 6.7 | JAN 7 | 751 | 1646 | 1010 | 122 | 1-2 | MAY 1 | 1 | 1 | 1 | 178 | 102 | 20-21 | 59 | 69 | 39 | 34 | 4.9 | 1.5 | 17 | 13.4 | 28 | 11 |
| SALENTIA | 26.0 | 15.2 | 20.6 | 37.8 | JUL 11 | - 6.7 | JAN 7 | 751 | 1646 | 1010 | 122 | 1-2 | MAY 1 | 1 | 1 | 1 | 178 | 102 | 20-21 | 59 | 69 | 39 | 34 | 4.9 | 1.5 | 17 | 13.4 | 28 | 11 |
| SALENTIA | 26.0 | 15.2 | 20.6 | 37.8 | JUL 11 | - 6.7 | JAN 7 | 751 | 1646 | 1010 | 122 | 1-2 | MAY 1 | 1 | 1 | 1 | 178 | 102 | 20-21 | 59 | 69 | 39 | 34 | 4.9 | 1.5 | 17 | 13.4 | 28 | 11 |
| SALENTIA | 26.0 | 15.2 | 20.6 | 37.8 | JUL 11 | - 6.7 | JAN 7 | 751 | 1646 | 1010 | 122 | 1-2 | MAY 1 | 1 | 1 | 1 | 178 | 102 | 20-21 | 59 | 69 | 39 | 34 | 4.9 | 1.5 | 17 | 13.4 | 28 | 11 |
| SALENTIA | 26.0 | 15.2 | 20.6 | 37.8 | JUL 11 | - 6.7 | JAN 7 | 751 | 1646 | 1010 | 122 | 1-2 | MAY 1 | 1 | 1 | 1 | 178 | 102 | 20-21 | 59 | 69 | 39 | 34 | 4.9 | 1.5 | 17 | 13.4 | 28 | 11 |
| SALENTIA | 26.0 | 15.2 | 20.6 | 37.8 | JUL 11 | - 6.7 | JAN 7 | 751 | 1646 | 1010 | 122 | 1-2 | MAY 1 | 1 | 1 | 1 | 178 | 102 | 20-21 | 59 | 69 | 39 | 34 | 4.9 | 1.5 | 17 | 13.4 | 28 | 11 |
| SALENTIA | 26.0 | 15.2 | 20.6 | 37.8 | JUL 11 | - 6.7 | JAN 7 | 751 | 1646 | 1010 | 122 | 1-2 | MAY 1 | 1 | 1 | 1 | 178 | 102 | 20-21 | 59 | 69 | 39 | 34 | 4.9 | 1.5 | 17 | 13.4 | 28 | 11 |
| SALENTIA | 26.0 | 15.2 | 20.6 | 37.8 | JUL 11 | - 6.7 | JAN 7 | 751 | 1646 | 1010 | 122 | 1-2 | MAY 1 | 1 | 1 | 1 | 178 | 102 | 20-21 | 59 | 69 | 39 | 34 | 4.9 | 1.5 | 17 | 13.4 | 28 | 11 |
| SALENTIA | 26.0 | 15.2 | 20.6 | 37.8 | JUL 11 | - 6.7 | JAN 7 | 751 | 1646 | 1010 | 122 | 1-2 | MAY 1 | 1 | 1 | 1 | 178 | 102 | 20-21 | 59 | 69 | 39 | 34 | 4.9 | 1.5 | 17 | 13.4 | 28 | 11 |
| SALENTIA | 26.0 | 15.2 | 20.6 | 37.8 | JUL 11 | - 6.7 | JAN 7 | 751 | 1646 | 1010 | 122 | 1-2 | MAY 1 | 1 | 1 | 1 | 178 | 102 | 20-21 | 59 | 69 | 39 | 34 | 4.9 | 1.5 | 17 | 13.4 | 28 | 11 |
| SALENTIA | 26.0 | 15.2 | 20.6 | 37.8 | JUL 11 | - 6.7 | JAN 7 | 751 | 1646 | 1010 | 122 | 1-2 | MAY 1 | 1 | 1 | 1 | 178 | 102 | 20-21 | 59 | 69 | 39 | 34 | 4.9 | 1.5 | 17 | 13.4 | 28 | 11 |
| SALENTIA | 26.0 | 15.2 | 20.6 | 37.8 | JUL 11 | - 6.7 | JAN 7 | 751 | 1646 | 1010 | 122 | 1-2 | MAY 1 | 1 | 1 | 1 | 178 | 102 | 20-21 | 59 | 69 | 39 | 34 | 4.9 | 1.5 | 17 | 13.4 | 28 | 11 |
| SALENTIA | 26.0 | 15.2 | 20.6 | 37.8 | JUL 11 | - 6.7 | JAN 7 | 751 | 1646 | 1010 | 122 | 1-2 | MAY 1 | 1 | 1 | 1 | 178 | 102 | 20-21 | 59 | 69 | 39 | 34 | 4.9 | 1.5 | 17 | 13.4 | 28 | 11 |
| SALENTIA | 26.0 | 15.2 | 20.6 | 37.8 | JUL 11 | - 6.7 | JAN 7 | 751 | 1646 | 1010 | 122 | 1-2 | MAY 1 | 1 | 1 | 1 | 178 | 102 | 20-21 | 59 | 69 | 39 | 34 | 4.9 | 1.5 | 17 | 13.4 | 28 | 11 |
| SALENTIA | 26.0 | 15.2 | 20.6 | 37.8 | JUL 11 | - 6.7 | JAN 7 | 751 | 1646 | 1010 | 122 | 1-2 | MAY 1 | 1 | 1 | 1 | 178 | 102 | 20-21 | 59 | 69 | 39 | 34 | 4.9 | 1.5 | 17 | 13.4 | 28 | 11 |
| SALENTIA | 26.0 | 15.2 | 20.6 | 37.8 | JUL 11 | - 6.7 | JAN 7 | 751 | 1646 | 1010 | 122 | 1-2 | MAY 1 | 1 | 1 | 1 | 178 | 102 | 20-21 | 59 | 69 | 39 | 34 | 4.9 | 1.5 | 17 | 13.4 | 28 | 11 |
| SALENTIA | 26.0 | 15.2 | 20.6 | 37.8 | JUL 11 | - 6.7 | JAN 7 | 751 | 1646 | 1010 | 122 | 1-2 | MAY 1 | 1 | 1 | 1 | 178 | 102 | 20-21 | 59 | 69 | 39 | 34 | 4.9 | 1.5 | 17 | 13.4 | 28 | 11 |
| SALENTIA | 26.0 | 15.2 | 20.6 | 37.8 | JUL 11 | - 6.7 | JAN 7 | 751 | 1646 | 1010 | 122 | 1-2 | MAY 1 | 1 | 1 | 1 | 178 | 102 | 20-21 | 59 | 69 | 39 | 34 | 4.9 | 1.5 | 17 | 13.4 | 28 | 11 |
| SALENTIA | 26.0 | 15.2 | 20.6 | 37.8 | JUL 11 | - 6.7 | JAN 7 | 751 | 1646 | 1010 | 122 | 1-2 | MAY 1 | 1 | 1 | 1 | 178 | 102 | 20-21 | 59 | 69 | 39 | 34 | 4.9 | 1.5 | 17 | 13.4 | 28 | 11 |
| SALENTIA | 26.0 | 15.2 | 20.6 | 37.8 | JUL 11 | - 6.7 | JAN 7 | 751 | 1646 | 1010 | 122 | 1-2 | MAY 1 | 1 | 1 | 1 | 178 | 102 | 20-21 | 59 | 69 | 39 | 34 | 4.9 | 1.5 | 17 | 13.4 | 28 | 11 |
| SALENTIA | 26.0 | 15.2 | 20.6 | 37.8 | JUL 11 | - 6.7 | JAN 7 | 751 | 1646 | 1010 | 122 | 1-2 | MAY 1 | 1 | 1 | 1 | 178 | 102 | 20-21 | 59 | 69 | 39 | 34 | 4.9 | 1.5 | 17 | 13.4 | 28 | 11 |
| SALENTIA | 26.0 | 15.2 | 20.6 | 37.8 | JUL 11 | - 6.7 | JAN 7 | 751 | 1646 | 1010 | 122 | 1-2 | MAY 1 | 1 | 1 | 1 | 178 | 102 | 20-21 | 59 | 69 | 39 | 34 | 4.9 | 1.5 | 17 | 13.4 | 28 | 11 |
| SALENTIA | 26.0 | 15.2 | 20.6 | 37.8 | JUL 11 | - 6.7 | JAN 7 | 751 | 1646 | 1010 | 122 | 1-2 | MAY 1 | 1 | 1 | 1 | 178 | 102 | 20-21 | 59 | 69 | 39 | 34 | 4.9 | 1.5 | 17 | 13.4 | | |

ANNUAL CLIMATOLOGICAL DATA METRIC UNITS

YEAR 19

| State and Station | Temperature | | | | Precipitation | | | | Relative humidity | | | Wind | | | Number of days | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | Averages | | Extremes | | Total | | Snow 1 | | 1000 m EST | | | Fastest mile (16 kilometers) | | | Precipitation | | Sunrise to sunset | | Heavy fog | Thunderstorms | Max Temp | Min Temp | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Daily maximum | Daily minimum | Annual | Date | Highest | Date | Lowest | Date | Base, 18.3°C | Base, 18.3°C | Cooling degree days | Total | Greatest in 24 hours | Date (s) | Total | Greatest in 24 hours | Date (s) | 1000 m EST | | | | | 7000 m EST | 1000 m EST | 700 m EST | 100 m EST | Average speed | Resultant speed | Resultant direction | Speed | Direction | Date | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Data from airport unless otherwise specified. U indicates Urban, R indicates Rural, sites.

Precipitation data in column headed "Greatest in 24 hours" are computed on a 24-hour basis without regard to calendar day - data may include precipitation with a measurable amount from the last day of the previous month or the first day of the following month.

Wind directions under resultant direction are in tens of degrees.

Value entered in column "Fastest Mile" is the highest observed 1-minute wind speed when the direction is in tens of degrees. These stations are not equipped with a recording anemometer from which "Fastest Mile" data can be evaluated.

Data in this table are obtained by conversion from data in the English Units table.

* Includes all forms of frozen precipitation, except hail occurring alone

+ And also on an earlier date or dates

R Number of days maximum 21.1% or above for Alaskan Station

Y Peak gust

V Sun below horizon November 19 - January 23, inclusive

A Sun below horizon November 24 - January 17, inclusive

* Less than 0.05.

NORMALS, MEANS AND EXTREMES

[illegible]

CDNS ANNUAL

- 44 -

1. *Introduction*

- 46 -

NORMALS, MEANS AND EXTREMES

[illegible]

NORMALS, MEANS AND EXTREMES

[illegible]

NORMALS, MEANS AND EXTREMES

CDMS ANNUAL
TABLE 1-2

| State and Station | Elevation ground (feet) | Temperature (°F) | | | | Precipitation (inches) | | | | Relative humidity (percent) | | | | Wind Speed (m.p.h.) | | Sunshine (percent of possible) | | Annual mean number of days | | | | Temperature | | | | |
|-------------------|-------------------------|--------------------|---------------|-------------|------------|------------------------|---------------|--------------|----|-----------------------------|--------------|---------------|--------------|---------------------|--------------|--------------------------------|-------|----------------------------|--------|--------------------------------|---------------------|---------------|-----------|-----|-----|------|
| | | Normal (1931-1960) | | Extremes | | Normal (1931-1960) | Extremes | | | January | | July | | Mean speed | Fastest mile | | Clear | Partly cloudy | Cloudy | Precipitation 0.1 inch or more | Snow 1 inch or more | Thunderstorms | Heavy fog | Max | Min | |
| | | Daily maximum | Daily minimum | Record high | Record low | | Wettest month | Driest month | | Wettest month | Driest month | Wettest month | Driest month | | | | | | | | | | | | | |
| | | January | July | Length yrs | Length yrs | | | | | | | | | | | | | | | | | | | | | |
| WASHINGTON | | | | | | | | | | | | | | | | | | | | | | | | | | |
| OLYMPIA | 195 | 45.1 | 31.1 | 79.7 | 48.0 | 50.8 | 124 | 118 | 48 | 52.36 | 9.05 | 52.37 | 19.84 | 0.00 | 12.00 | 9.2 | 18.6 | 13.7 | 91 | 89 | 82 | 90 | 44 | 87 | 4 | 81 |
| SEATTLE | 400 | 44.2 | 33.0 | 75.2 | 49.2 | 49.2 | 6 | 92 | 7 | 828 | 5745 | 16.81 | 2.08 | 103.55 | 24.86 | 0.00 | 4.32 | 17.7 | 17.6 | 8.2 | 93 | 92 | 87 | 94 | 74 | 63 |
| SEATTLE-TACOMA | 400 | 44.2 | 33.0 | 75.2 | 49.2 | 49.2 | 6 | 92 | 7 | 828 | 5745 | 16.81 | 2.08 | 103.55 | 24.86 | 0.00 | 4.32 | 17.7 | 17.6 | 8.2 | 93 | 92 | 87 | 94 | 74 | 63 |
| SPRINGFIELD | 4 | 45.1 | 31.1 | 79.7 | 48.0 | 50.8 | 124 | 118 | 48 | 52.36 | 9.05 | 52.37 | 19.84 | 0.00 | 12.00 | 9.2 | 18.6 | 13.7 | 91 | 89 | 82 | 90 | 44 | 87 | 4 | 81 |
| SPRINGFIELD | 4 | 45.1 | 31.1 | 79.7 | 48.0 | 50.8 | 124 | 118 | 48 | 52.36 | 9.05 | 52.37 | 19.84 | 0.00 | 12.00 | 9.2 | 18.6 | 13.7 | 91 | 89 | 82 | 90 | 44 | 87 | 4 | 81 |
| SPRINGFIELD | 4 | 45.1 | 31.1 | 79.7 | 48.0 | 50.8 | 124 | 118 | 48 | 52.36 | 9.05 | 52.37 | 19.84 | 0.00 | 12.00 | 9.2 | 18.6 | 13.7 | 91 | 89 | 82 | 90 | 44 | 87 | 4 | 81 |
| SPRINGFIELD | 4 | 45.1 | 31.1 | 79.7 | 48.0 | 50.8 | 124 | 118 | 48 | 52.36 | 9.05 | 52.37 | 19.84 | 0.00 | 12.00 | 9.2 | 18.6 | 13.7 | 91 | 89 | 82 | 90 | 44 | 87 | 4 | 81 |
| SPRINGFIELD | 4 | 45.1 | 31.1 | 79.7 | 48.0 | 50.8 | 124 | 118 | 48 | 52.36 | 9.05 | 52.37 | 19.84 | 0.00 | 12.00 | 9.2 | 18.6 | 13.7 | 91 | 89 | 82 | 90 | 44 | 87 | 4 | 81 |
| SPRINGFIELD | 4 | 45.1 | 31.1 | 79.7 | 48.0 | 50.8 | 124 | 118 | 48 | 52.36 | 9.05 | 52.37 | 19.84 | 0.00 | 12.00 | 9.2 | 18.6 | 13.7 | 91 | 89 | 82 | 90 | 44 | 87 | 4 | 81 |
| SPRINGFIELD | 4 | 45.1 | 31.1 | 79.7 | 48.0 | 50.8 | 124 | 118 | 48 | 52.36 | 9.05 | 52.37 | 19.84 | 0.00 | 12.00 | 9.2 | 18.6 | 13.7 | 91 | 89 | 82 | 90 | 44 | 87 | 4 | 81 |
| SPRINGFIELD | 4 | 45.1 | 31.1 | 79.7 | 48.0 | 50.8 | 124 | 118 | 48 | 52.36 | 9.05 | 52.37 | 19.84 | 0.00 | 12.00 | 9.2 | 18.6 | 13.7 | 91 | 89 | 82 | 90 | 44 | 87 | 4 | 81 |
| SPRINGFIELD | 4 | 45.1 | 31.1 | 79.7 | 48.0 | 50.8 | 124 | 118 | 48 | 52.36 | 9.05 | 52.37 | 19.84 | 0.00 | 12.00 | 9.2 | 18.6 | 13.7 | 91 | 89 | 82 | 90 | 44 | 87 | 4 | 81 |
| SPRINGFIELD | 4 | 45.1 | 31.1 | 79.7 | 48.0 | 50.8 | 124 | 118 | 48 | 52.36 | 9.05 | 52.37 | 19.84 | 0.00 | 12.00 | 9.2 | 18.6 | 13.7 | 91 | 89 | 82 | 90 | 44 | 87 | 4 | 81 |
| SPRINGFIELD | 4 | 45.1 | 31.1 | 79.7 | 48.0 | 50.8 | 124 | 118 | 48 | 52.36 | 9.05 | 52.37 | 19.84 | 0.00 | 12.00 | 9.2 | 18.6 | 13.7 | 91 | 89 | 82 | 90 | 44 | 87 | 4 | 81 |
| SPRINGFIELD | 4 | 45.1 | 31.1 | 79.7 | 48.0 | 50.8 | 124 | 118 | 48 | 52.36 | 9.05 | 52.37 | 19.84 | 0.00 | 12.00 | 9.2 | 18.6 | 13.7 | 91 | 89 | 82 | 90 | 44 | 87 | 4 | 81 |
| SPRINGFIELD | 4 | 45.1 | 31.1 | 79.7 | 48.0 | 50.8 | 124 | 118 | 48 | 52.36 | 9.05 | 52.37 | 19.84 | 0.00 | 12.00 | 9.2 | 18.6 | 13.7 | 91 | 89 | 82 | 90 | 44 | 87 | 4 | 81 |
| SPRINGFIELD | 4 | 45.1 | 31.1 | 79.7 | 48.0 | 50.8 | 124 | 118 | 48 | 52.36 | 9.05 | 52.37 | 19.84 | 0.00 | 12.00 | 9.2 | 18.6 | 13.7 | 91 | 89 | 82 | 90 | 44 | 87 | 4 | 81 |
| SPRINGFIELD | 4 | 45.1 | 31.1 | 79.7 | 48.0 | 50.8 | 124 | 118 | 48 | 52.36 | 9.05 | 52.37 | 19.84 | 0.00 | 12.00 | 9.2 | 18.6 | 13.7 | 91 | 89 | 82 | 90 | 44 | 87 | 4 | 81 |
| SPRINGFIELD | 4 | 45.1 | 31.1 | 79.7 | 48.0 | 50.8 | 124 | 118 | 48 | 52.36 | 9.05 | 52.37 | 19.84 | 0.00 | 12.00 | 9.2 | 18.6 | 13.7 | 91 | 89 | 82 | 90 | 44 | 87 | 4 | 81 |
| SPRINGFIELD | 4 | 45.1 | 31.1 | 79.7 | 48.0 | 50.8 | 124 | 118 | 48 | 52.36 | 9.05 | 52.37 | 19.84 | 0.00 | 12.00 | 9.2 | 18.6 | 13.7 | 91 | 89 | 82 | 90 | 44 | 87 | 4 | 81 |
| SPRINGFIELD | 4 | 45.1 | 31.1 | 79.7 | 48.0 | 50.8 | 124 | 118 | 48 | 52.36 | 9.05 | 52.37 | 19.84 | 0.00 | 12.00 | 9.2 | 18.6 | 13.7 | 91 | 89 | 82 | 90 | 44 | 87 | 4 | 81 |
| SPRINGFIELD | 4 | 45.1 | 31.1 | 79.7 | 48.0 | 50.8 | 124 | 118 | 48 | 52.36 | 9.05 | 52.37 | 19.84 | 0.00 | 12.00 | 9.2 | 18.6 | 13.7 | 91 | 89 | 82 | 90 | 44 | 87 | 4 | 81 |
| SPRINGFIELD | 4 | 45.1 | 31.1 | 79.7 | 48.0 | 50.8 | 124 | 118 | 48 | 52.36 | 9.05 | 52.37 | 19.84 | 0.00 | 12.00 | 9.2 | 18.6 | 13.7 | 91 | 89 | 82 | 90 | 44 | 87 | 4 | 81 |
| SPRINGFIELD | 4 | 45.1 | 31.1 | 79.7 | 48.0 | 50.8 | 124 | 118 | 48 | 52.36 | 9.05 | 52.37 | 19.84 | 0.00 | 12.00 | 9.2 | 18.6 | 13.7 | 91 | 89 | 82 | 90 | 44 | 87 | 4 | 81 |
| SPRINGFIELD | 4 | 45.1 | 31.1 | 79.7 | 48.0 | 50.8 | 124 | 118 | 48 | 52.36 | 9.05 | 52.37 | 19.84 | 0.00 | 12.00 | 9.2 | 18.6 | 13.7 | 91 | 89 | 82 | 90 | 44 | 87 | 4 | 81 |
| SPRINGFIELD | 4 | 45.1 | 31.1 | 79.7 | 48.0 | 50.8 | 124 | 118 | 48 | 52.36 | 9.05 | 52.37 | 19.84 | 0.00 | 12.00 | 9.2 | 18.6 | 13.7 | 91 | 89 | 82 | 90 | 44 | 87 | 4 | 81 |
| SPRINGFIELD | 4 | 45.1 | 31.1 | 79.7 | 48.0 | 50.8 | 124 | 118 | 48 | 52.36 | 9.05 | 52.37 | 19.84 | 0.00 | 12.00 | 9.2 | 18.6 | 13.7 | 91 | 89 | 82 | 90 | 44 | 87 | 4 | 81 |
| SPRINGFIELD | 4 | 45.1 | 31.1 | 79.7 | 48.0 | 50.8 | 124 | 118 | 48 | 52.36 | 9.05 | 52.37 | 19.84 | 0.00 | 12.00 | 9.2 | 18.6 | 13.7 | 91 | 89 | 82 | 90 | 44 | 87 | 4 | 81 |
| SPRINGFIELD | 4 | 45.1 | 31.1 | 79.7 | 48.0 | 50.8 | 124 | 118 | 48 | 52.36 | 9.05 | 52.37 | 19.84 | 0.00 | 12.00 | 9.2 | 18.6 | 13.7 | 91 | 89 | 82 | 90 | 44 | 87 | 4 | 81 |
| SPRINGFIELD | 4 | 45.1 | 31.1 | 79.7 | 48.0 | 50.8 | 124 | 118 | 48 | 52.36 | 9.05 | 52.37 | 19.84 | 0.00 | 12.00 | 9.2 | 18.6 | 13.7 | 91 | 89 | 82 | 90 | 44 | 87 | 4 | 81 |
| SPRINGFIELD | 4 | 45.1 | 31.1 | 79.7 | 48.0 | 50.8 | 124 | 118 | 48 | 52.36 | 9.05 | 52.37 | 19.84 | 0.00 | 12.00 | 9.2 | 18.6 | 13.7 | 91 | 89 | 82 | 90 | 44 | 87 | 4 | 81 |
| SPRINGFIELD | 4 | 45.1 | 31.1 | 79.7 | 48.0 | 50.8 | 124 | 118 | 48 | 52.36 | 9.05 | 52.37 | 19.84 | 0.00 | 12.00 | 9.2 | 18.6 | 13.7 | 91 | 89 | 82 | 90 | 44 | 87 | 4 | 81 |
| SPRINGFIELD | 4 | 45.1 | 31.1 | 79.7 | 48.0 | 50.8 | 124 | 118 | 48 | 52.36 | 9.05 | 52.37 | 19.84 | 0.00 | 12.00 | 9.2 | 18.6 | 13.7 | 91 | 89 | 82 | 90 | 44 | 87 | 4 | 81 |
| SPRINGFIELD | 4 | 45.1 | 31.1 | 79.7 | 48.0 | 50.8 | 124 | 118 | 48 | 52.36 | 9.05 | 52.37 | 19.84 | 0.00 | 12.00 | 9.2 | 18.6 | 13.7 | 91 | 89 | 82 | 90 | 44 | 87 | 4 | 81 |
| SPRINGFIELD | 4 | 45.1 | 31.1 | 79.7 | 48.0 | 50.8 | 124 | 118 | 48 | 52.36 | 9.05 | 52.37 | 19.84 | 0.00 | 12.00 | 9.2 | 18.6 | 13.7 | 91 | 89 | 82 | 90 | 44 | 87 | 4 | 81 |
| SPRINGFIELD | 4 | 45.1 | 31.1 | 79.7 | 48.0 | 50.8 | 124 | 118 | 48 | 52.36 | 9.05 | 52.37 | 19.84 | 0.00 | 12.00 | 9.2 | 18.6 | 13.7 | 91 | 89 | 82 | 90 | 44 | 87 | 4 | 81 |
| SPRINGFIELD | 4 | 45.1 | 31.1 | 79.7 | 48.0 | 50.8 | 124 | 118 | 48 | 52.36 | 9.05 | 52.37 | 19.84 | 0.00 | 12.00 | 9.2 | 18.6 | 13.7 | 91 | 89 | 82 | 90 | 44 | 87 | 4 | 81 |
| SPRINGFIELD | 4 | 45.1 | 31.1 | 79.7 | 48.0 | 50.8 | 124 | 118 | 48 | 52.36 | 9.05 | 52.37 | 19.84 | 0.00 | 12.00 | 9.2 | 18.6 | 13.7 | 91 | 89 | 82 | 90 | 44 | 87 | 4 | 81 |
| SPRINGFIELD | 4 | 45.1 | 31.1 | 79.7 | 48.0 | 50.8 | 124 | 118 | 48 | 52.36 | 9.05 | 52.37 | 19.84 | 0.00 | 12.00 | 9.2 | 18.6 | 13.7 | 91 | 89 | 82 | 90 | 44 | 87 | 4 | 81 |
| SPRINGFIELD | 4 | 45.1 | 31.1 | 79.7 | 48.0 | 50.8 | 124 | 118 | 48 | 52.36 | 9.05 | 52.37 | 19.84 | 0.00 | 12.00 | 9.2 | 18.6 | 13.7 | 91 | 89 | 82 | 90 | 44 | 87 | 4 | 81 |
| SPRINGFIELD | 4 | 45.1 | 31.1 | 79.7 | 48.0 | 50.8 | 124 | 118 | 48 | 52.36 | 9.05 | 52.37 | 19.84 | 0.00 | 12.00 | 9.2 | 18.6 | 13.7 | 91 | 89 | 82 | 90 | 44 | 87 | 4 | 81 |
| SPRINGFIELD | 4 | 45.1 | 31.1 | 79.7 | 48.0 | 50.8 | 124 | 118 | 48 | 52.36 | 9.05 | 52.37 | 19.84 | 0.00 | 12.00 | 9.2 | 18.6 | 13.7 | 91 | 89 | 82 | 90 | 44 | 87 | 4 | 81 |
| SPRINGFIELD | 4 | 45.1 | 31.1 | 79.7 | 48.0 | 50.8 | 124 | 118 | 48 | 52.36 | 9.05 | 52.37 | 19.84 | 0.00 | 12.00 | 9.2 | 18.6 | 13.7 | 91 | 89 | 82 | 90 | 44 | 87 | 4 | 81 |
| SPRINGFIELD | 4 | 45.1 | 31.1 | 79.7 | 48.0 | 50.8 | 124 | 118 | 48 | 52.36 | 9.05 | 52.37 | 19.84 | 0.00 | 12.00 | 9.2 | 18.6 | 13.7 | 91 | 89 | 82 | 90 | 44 | 87 | 4 | 81 |
| SPRINGFIELD | 4 | 45.1 | 31.1 | 79.7 | 48.0 | 50.8 | 124 | 118 | 48 | 52.36 | 9.05 | 52.37 | 19.84 | 0.00 | 12.00 | 9.2 | 18.6 | 13.7 | 91 | 89 | 82 | 90 | 44 | 87 | 4 | 81 |
| SPRINGFIELD | 4 | 45.1 | 31.1 | 79.7 | 48.0 | 50.8 | 124 | 118 | 48 | 52.36 | 9.05 | 52.37 | 19.84 | 0.00 | 12.00 | 9.2 | 18.6 | 13.7 | 91 | 89 | 82 | 90 | 44 | 87 | 4 | 81 |
| SPRINGFIELD | 4 | 45.1 | 31.1 | 79.7 | 48.0 | 50.8 | 124 | 118 | 48 | 52.36 | 9.05 | 52.37 | 19.84 | 0.00 | 12.00 | 9.2 | 18.6 | 13.7 | 91 | 89 | 82 | 90 | 44 | 87 | 4 | 81 |
| SPRINGFIELD | 4 | 45.1 | 31.1 | 79.7 | 48.0 | 50.8 | 124 | 118 | 48 | 52.36 | 9.05 | 52.37 | 19.84 | 0.00 | 12.00 | 9.2 | 18.6 | 13.7 | 91 | 89 | 82 | 90 | 44 | 87 | 4 | 81 |
| SPRINGFIELD | 4 | 45.1 | 31.1 | 79.7 | 48.0 | 50.8 | 124 | 118 | 48 | 52.36 | 9.05 | 52.37 | 19.84 | 0.00 | 12.00 | 9.2 | 18.6 | 13.7 | 91 | 89 | 82 | 90 | 44 | 87 | 4 | 81 |
| SPRINGFIELD | 4 | 45.1 | 31.1 | 79.7 | 48.0 | 50.8 | 124 | 118 | 48 | 52.36 | 9.05 | 52.37 | 19.84 | 0.00 | 12.00 | 9.2 | 18.6 | 13.7 | 91 | 89 | 82 | 90 | 44 | 87 | 4 | 81</ |

ELEVATIONS - STATION PRESSURES

| State and station | | | State and station | | | State and station | | | State and station | | |
|----------------------|------|------|------------------------|------|------|----------------------------|------|------|-------------------|------|------|
| | Ft | Mtrs | | Ft | Mtrs | | Ft | Mtrs | | Ft | Mtrs |
| ALABAMA | | | IDAHO | | | NEVADA | | | TENNESSEE | | |
| Birmingham | 630 | 192 | Boise | 2868 | 871 | Elko | 5077 | 1547 | Bristol | 1525 | 465 |
| Huntsville | 644 | 196 | Lewiston | 1436 | 438 | Ely | 6262 | 1909 | Chattanooga | 688 | 210 |
| Mobile | 221 | 67 | Pocatello | 4478 | 1365 | Las Vegas | 2180 | 664 | Knoxville | 980 | 299 |
| Montgomery | 202 | 62 | ILLINOIS | | | Reno | 4400 | 1341 | Memphis | 284 | 87 |
| ALASKA | | | Cairo (U) | 357 | 109 | Winnemucca | 4339 | 1323 | Nashville | 605 | 184 |
| Anchorage | 132 | 40 | Chicago (O'Hare) | 674 | 205 | NEW HAMPSHIRE | | | Oak Ridge (R) | 914 | 279 |
| Annette | 110 | 34 | Chicago (Midway) | 623 | 190 | Concord | 346 | 105 | TEXAS | | |
| Barrow | 13 | 4 | Moline | 594 | 181 | NEW JERSEY | | | Abilene | 1753 | 534 |
| Barter Island | 50 | 15 | Peoria | 662 | 202 | Atlantic City (Exp. Cntr.) | 67 | 20 | Amarillo | 3604 | 1099 |
| Bethel | 150 | 46 | Rockford | 743 | 226 | Newark | 30 | 9 | Austin | 621 | 189 |
| Bettles | 672 | 205 | Springfield | 613 | 187 | Trenton (U) | 190 | 58 | Brownsville | 20 | 6 |
| Big Delta | 1274 | 389 | INDIANA | | | NEW MEXICO | | | Corpus Christi | 44 | 13 |
| Cold Bay | 103 | 31 | Evansville | 388 | 118 | Albuquerque | 5314 | 1620 | Dallas | 488 | 149 |
| Fairbanks | 454 | 138 | Fort Wayne | 828 | 252 | Clayton | 4972 | 1515 | Del Rio | 1027 | 313 |
| Gulkana | 1579 | 481 | Indianapolis | 808 | 246 | Roswell | 3619 | 1103 | El Paso | 3916 | 1194 |
| Homer | 73 | 22 | South Bend | 773 | 236 | NEW YORK | | | Fort Worth | 576 | 176 |
| Illamna | 160 | 49 | IOWA | | | Albany | 292 | 89 | Galveston (U) | 54 | 16 |
| Juneau | 24 | 7 | Burlington | 702 | 214 | Binghamton | 1638 | 499 | Houston | 108 | 33 |
| King Salmon | 49 | 15 | Des Moines | 963 | 294 | Buffalo | 706 | 215 | Lubbock | 3241 | 988 |
| Kotzebue | 16 | 5 | Dubuque | 1080 | 329 | New York Central Park | 87 | 27 | Midland | 2862 | 872 |
| McGrath | 338 | 103 | Sioux City | 1103 | 336 | New York (Kennedy AP) | 22 | 7 | Port Arthur | 22 | 7 |
| Nome | 22 | 7 | Waterloo | 878 | 268 | New York (LaGuardia) | 31 | 9 | San Angelo | 1908 | 582 |
| St. Paul Island | 28 | 9 | KANSAS | | | Rochester | 555 | 169 | San Antonio | 794 | 242 |
| Shemya | 102 | 31 | Concordia | 1484 | 452 | Syracuse | 408 | 124 | Victoria | 117 | 36 |
| Summit | 2405 | 733 | Dodge City | 2592 | 790 | NORTH CAROLINA | | | Waco | 508 | 155 |
| Talkeetna | 356 | 180 | Goodland | 3688 | 1124 | Asheville | 2170 | 661 | Wichita Falls | 1030 | 314 |
| Unalakleet | 21 | 6 | Topeka | 885 | 270 | Cape Hatteras (R) | 11 | 3 | UTAH | | |
| Yakutat | 31 | 9 | Wichita | 1340 | 408 | Charlotte | 769 | 234 | Milford | 5033 | 1534 |
| ARIZONA | | | KENTUCKY | | | Greensboro | 886 | 270 | Salt Lake City | 4227 | 1288 |
| Flagstaff | 7018 | 2139 | Covington | 877 | 267 | Raleigh | 441 | 134 | Wendover | 4239 | 1292 |
| Phoenix | 1107 | 337 | Lexington | 989 | 301 | Wilmington | 38 | 12 | VERMONT | | |
| Tucson | 2555 | 779 | Louisville | 488 | 149 | NORTH DAKOTA | | | Burlington | 340 | 104 |
| Winslow | 4883 | 1488 | LOUISIANA | | | Bismarck | 1660 | 506 | VIRGINIA | | |
| Yuma | 206 | 63 | Alexandria | 118 | 36 | Fargo | 899 | 274 | Lynchburg | 937 | 286 |
| ARKANSAS | | | Baton Rouge | 76 | 23 | Williston | 1905 | 581 | Norfolk | 30 | 9 |
| Fort Smith | 463 | 141 | Lake Charles | 32 | 1 | OHIO | | | Richmond | 177 | 54 |
| Little Rock | 265 | 81 | New Orleans | 30 | 9 | Akron | 1236 | 377 | Roanoke | 1176 | 358 |
| CALIFORNIA | | | Shreveport | 259 | 79 | Cleveland | 805 | 245 | Wallops Island | 13 | 4 |
| Bakersfield | 492 | 150 | MAINE | | | Columbus | 833 | 254 | WASHINGTON | | |
| Bishop | 4145 | 1263 | Caribou | 628 | 191 | Dayton | 1003 | 306 | Olympia | 200 | 61 |
| Blue Canyon | 5283 | 1610 | Portland | 63 | 19 | Mansfield | 1312 | 400 | Seattle-Tacoma | 450 | 137 |
| Eureka (U) | 60 | 18 | MARYLAND | | | Toledo | 692 | 211 | Spokane | 2365 | 721 |
| Fresno | 327 | 100 | Baltimore | 155 | 47 | Youngstown | 1186 | 361 | Stampede Pass (R) | 3967 | 1209 |
| Long Beach | 40 | 12 | MASSACHUSETTS | | | OKLAHOMA | | | Walla Walla (U) | 991 | 302 |
| Los Angeles | 104 | 32 | Boston | 29 | 9 | Oklaoma City | 1304 | 397 | Yakima | 1066 | 325 |
| W. Shasta (R) | 3587 | 1093 | Nantucket | 12 | 4 | Tulsa | 676 | 206 | Quillayute | 205 | 62 |
| Oakland | 7 | 2 | Worcester | 1017 | 310 | OREGON | | | WEST INDIES | | |
| Red Bluff | 353 | 108 | MICHIGAN | | | Astoria | 22 | 7 | San Juan, P. R. | 62 | 19 |
| Sacramento | 25 | 8 | Alpena | 693 | 211 | Burns (U) | 4170 | 1271 | Swan Island | 35 | 11 |
| Sandberg (R) | 4523 | 1379 | Detroit (City AP) | 626 | 191 | Eugene | 373 | 114 | WEST VIRGINIA | | |
| San Diego | 28 | 9 | Detroit (M. Wayne Co.) | 664 | 202 | Meacham | 4056 | 1236 | Beckley | 2514 | 766 |
| San Francisco (U) | 155 | 47 | Flint | 766 | 233 | Medford | 1329 | 405 | Charleston | 951 | 290 |
| San Francisco | 18 | 5 | Grand Rapids | 803 | 245 | Pendleton | 1495 | 456 | Elkins | 1997 | 608 |
| Santa Maria | 238 | 73 | Houghton Lake | 1160 | 354 | Portland | 39 | 12 | Huntington | 838 | 255 |
| Stockton | 27 | 8 | Lansing | 874 | 266 | Salem | 201 | 61 | Parkersburg (U) | 637 | 194 |
| COLORADO | | | Marquette (U) | 734 | 224 | Sexton Summit (R) | 3841 | 1171 | WISCONSIN | | |
| Alamosa | 7541 | 2298 | Muskegon | 633 | 193 | PACIFIC AREA | | | Green Bay | 702 | 214 |
| Colorado Springs | 6170 | 1881 | Sault Ste. Marie | 724 | 221 | Johnston Island | 17 | 5 | La Crosse | 672 | 205 |
| Denver | 5332 | 1625 | MINNESOTA | | | Koror (R) | 109 | 33 | Madison | 866 | 264 |
| Grand Junction. | 4839 | 1475 | Duluth | 1417 | 432 | Kwajalein | 26 | 8 | Milwaukee | 693 | 211 |
| Pueblo | 4720 | 1439 | International Falls | 1183 | 361 | Majuro, Marshall Islands | 10 | 3 | WYOMING | | |
| CONNECTICUT | | | Minneapolis | 838 | 255 | Pago Pago | 10 | 3 | Casper | 5290 | 1612 |
| Bridgeport | 17 | 5 | Rochester | 1320 | 402 | Ponape (R) | 151 | 46 | Cheyenne | 6141 | 1872 |
| Hartford | 179 | 55 | St. Cloud | 1043 | 318 | Taguac, Guam (R) | 365 | 111 | Lander | 5558 | 1694 |
| DELAWARE | | | MISSISSIPPI | | | Truk (Moen Island) | 8 | 2 | Sheridan | 3968 | 1209 |
| Wilmington | 80 | 24 | Jackson | 331 | 101 | Wake Island | 12 | 4 | | | |
| DISTRICT OF COLUMBIA | | | Meridian | 310 | 94 | Yap (R) | 56 | 17 | | | |
| Wash. Nat'l AP | 65 | 20 | MISSOURI | | | PENNSYLVANIA | | | | | |
| FLORIDA | | | Columbia | 898 | 274 | Allentown | 385 | 117 | | | |
| Apalachicola (U) | 35 | 11 | Kansas City | 750 | 229 | Erie | 737 | 225 | | | |
| Daytona Beach | 41 | 12 | St. Joseph | 817 | 249 | Harrisburg | 351 | 107 | | | |
| Fort Myers | 12 | 4 | St. Louis (Lambert) | 564 | 172 | Philadelphia | 28 | 9 | | | |
| Jacksonville | 31 | 9 | Springfield | 1270 | 387 | Pittsburgh | 1225 | 373 | | | |
| Key West | 21 | 6 | MONTANA | | | Scranton | 948 | 289 | | | |
| Lakealand (U) | 236 | 72 | Billings | 3570 | 1088 | Williamsport | 525 | 160 | | | |
| Miami | 12 | 4 | Glasgow | 2298 | 700 | RHODE ISLAND | | | | | |
| Orlando | 119 | 36 | Great Falls | 3657 | 1115 | Block Island | 118 | 36 | | | |
| Pensacola | 118 | 36 | Havre | 2599 | 792 | Providence | 62 | 19 | | | |
| Tallahassee | 68 | 21 | Helena | 3898 | 1188 | SOUTH CAROLINA | | | | | |
| Tampa | 11 | 3 | Kalispell | 2973 | 906 | Charleston (U) | 48 | 15 | | | |
| West Palm Beach | 21 | 6 | Miles City | 2634 | 803 | Charleston | 48 | 15 | | | |
| GEORGIA | | | Missoula | 3189 | 972 | Columbia | 225 | 69 | | | |
| Athens | 811 | 247 | NEBRASKA | | | Grrnl-Spartanburg | 971 | 296 | | | |
| Atlanta | 1034 | 315 | Grand Island | 1856 | 566 | SOUTH DAKOTA | | | | | |
| Augusta | 148 | 45 | Lincoln (U) | 1189 | 362 | Aberdeen | 1300 | 396 | | | |
| Columbus | 394 | 120 | Norfolk | 1551 | 473 | Huron | 1289 | 393 | | | |
| Macon | 362 | 110 | North Platte | 2787 | 849 | Rapid City | 3168 | 966 | | | |
| Rome | 643 | 196 | Omaha (Eppley AP) | 299 | 92 | Sioux Falls | 1427 | 435 | | | |
| Savannah | 51 | 16 | Scottsbluff | 3958 | 1206 | | | | | | |
| HAWAII | | | Valentine | 2598 | 792 | | | | | | |
| Hilo | 36 | 11 | | | | | | | | | |
| Honolulu | 15 | 5 | | | | | | | | | |
| Kahului | 57 | 20 | | | | | | | | | |
| Lihue | 148 | 45 | | | | | | | | | |

Data from airport unless otherwise specified. U indicates Urban, R indicates Rural, sites.
These are the elevations of the barometer (in feet and meters above mean sea level) to which station pressure values pertain in the

"Climatological Data" table in the monthly publication CLIMATOLOGICAL DATA NATIONAL SUMMARY.

GENERAL SUMMARY OF TORNADOES, 1970

Esther K. Grabill
Environmental Data Service
National Oceanic and Atmospheric Administration
Washington, D. C.

A total of 649 tornadoes were reported in the United States in 1970. They occurred on 171 days, caused 73 deaths, and millions of dollars of property damage. Averages for the 18-year period, 1953-70, are 642 tornadoes, 159 tornado days, and 116 deaths. More than half of the tornadoes in 1970, 418, occurred in the 4-month period, April through July. Only 7 states, Alaska, Delaware, Hawaii, Idaho, Maryland, Rhode Island, and Wyoming, escaped these deadly storms.

Some of the worst outbreaks are described briefly in the following paragraphs:

MARCH.--In Titusville, Fla., on the 5th, a tornado destroyed 12 homes and caused 50 to 90% damage to 37 others, but no deaths. Property damage amounted to \$1,400,000 which includes \$40,000 to telephone, \$40,000 to utilities, and \$10,000 to gas.

APRIL.--In Mississippi on the 19th, a tornado caused about \$50,000 damage in a section of Ripley. It next touched down in South Corinth and during 6 minutes along a 3-mile path destroyed 3 churches, 5 small businesses and 69 homes, caused major damage to 63 other homes and 2 businesses, and minor damage to 83 homes. Four persons were killed and 78 injured. A total of 225 families were affected by the tornado. Damage was estimated at \$1.8 million.

In Oklahoma on the 30th, the first damage from a tornado, \$10,000, occurred 4 miles northwest of Pocasset; damage at Mustang amounted to about \$500,000 and was confined mainly to a shopping center and the city hall. In Oklahoma City, damage was estimated at \$6.3 million, which included damage to 1473 homes, 293 businesses, 8 schools, 12 churches, and 300 signs.

Three tornadoes struck Memphis, Tenn., on the 24th. Thirteen persons were injured, 5 homes were demolished, 28 others received major damage, and 417 buildings and/or homes received minor damage. At Memphis International AP, 22 aircraft were heavily damaged, and 11 received minor damage. Total damage was estimated at \$2 million.

On the 27th, a tornado skipped along a discontinuous 42-mile long path across 3 north-central counties in Tennessee. In many places, houses and farm buildings were completely demolished, others suffered extensive structural damage. At the University of Tennessee, Highland Rim Experimental Farm, 7 homes and 8 barns were demolished, trees were uprooted, and there was extensive damage to farm tractors and equipment. A series of touchdowns occurred thereafter. Total storm damage included 76 homes and 80 barns destroyed or heavily damaged. Three mobile homes were demolished and 5 churches and 5 buildings were heavily damaged. Property damage was estimated at \$1.5 million. Two persons died and 85 persons were injured.

In Texas, on the 17-18th, at least 2 tornadoes moved northeastward across portions of the South Plains and the Panhandle in an intermittent track some 140 miles long through eight counties. At Whiteface, 20 persons were injured, almost every building in the town was damaged and some were a total loss, with damage estimated at \$2 million. Two persons were killed and 7 injured at Cotton Center-Hale Center rural area. A tornado moved through the Seth Ward Community, on the northeast edge of Plainview, leveling almost everything in a 3 to 6 city block wide path. Forty persons were injured. Property damage totaled \$4.5 million.

In the southeast corner of Swisher County 2 persons were killed, property losses were heavy. The tornado left a perfectly straight line of destruction from the Briscoe County line to Silverton, killing 1 person and injuring 4. Property damage was estimated at \$1.5 million. These tornadoes resulted in 5 deaths, 77 injuries, and property loss estimated at \$9.9 million.

Another Texas tornado on the 17-18th cut an intermittent path 120 miles long and up to 1/2 mile wide, from Lazbuddie Community in Parmer County to Pampa in Gray County. One person was killed, 13 injured, and property loss amounted to \$2.5 million.

On the 18th a tornado swept across the northeastern portion of Donley County, Texas, near Clarendon. Sixteen persons died and 42 were injured. Property damage totaled \$2.1 million. This included the destruction of 172 mobile homes; only one remained in the entire settlement of Sherwood Shores.

MAY.--On the 11th, the costliest tornado in Texas history developed over the southwest section of Lubbock, plowed through the downtown area, crumbling apartment houses and other buildings enroute. It moved north-eastward and stayed on the ground for 8 miles. It disappeared after wrecking airplanes, hangers, and other buildings at Lubbock Municipal AP. Twenty-six persons died, at least 500 were injured, and total property damage was estimated at \$135 million. This tornado occurred on the anniversary date of the Waco tornado, which devastated the heart of that city on May 11, 1953.

JUNE.--On the 11th, a tornado that touched down in the Stillwell, Okla., vicinity moved into Arkansas. The hardest hit area was Springdale, Ark., where 138 homes, apartments and businesses were extensively damaged. Much of a shopping center was leveled. Damage is placed at over \$1 million.

A tornado in Myerstown, Pa., on the 18th caused the death of a 13-year old boy and injuries to 5 other persons. Estimated damage was \$1 million.

AUGUST.--On the 22d a tornado struck a residential area of Bridgeport, W. Va. Five homes were destroyed and 112 homes and 2 businesses substantially damaged with a total estimated loss of \$1.36 million. Power and telephone lines sustained heavy damage, and hundreds of trees were uprooted or broken off. Bridgeport is just 6 miles SSE of Shinnston, where the most devastating tornado in West Virginia struck June 23, 1944, killing 103 persons and damaging over 1,000 homes.

SEPTEMBER.--On the 9th, a tornado struck a new shopping center in Dubuque, Iowa, causing losses in excess of \$5 million.

OCTOBER.--In Oklahoma on the 5th, a tornado dipped down in the center of the town of Shawnee where it killed 4 persons, injured 80 others, and damaged 157 business establishments, 564 homes, 12 public buildings, 10 churches, and 5 schools. It came down again in the southeastern section of Prague and injured 4 persons, damaged 14 homes and 1 business.

NOVEMBER.--At Oak Forest, Ark., on the 19th, a tornado completely destroyed or damaged 46 buildings. Twenty-seven persons were injured and 100 persons were left homeless.

Additional information is contained in the tables, figures, and tornado tracks on the following pages.

TABLE 1 TORNADO SUMMARY 1970

| STATE | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sep. | Oct. | Nov. | Dec. | Year |
|------------------|------|------|------|------|-----|------|------|------|------|------|------|------|------|
| ALA. | | | | | | | | | | | | | |
| Number | | | 4 | 6 | | 2 | 1 | 1 | | | | | 14 |
| Days | | | 3 | 3 | | 2 | 1 | 1 | | | | | 10 |
| Deaths | | | 2 | 0 | | 0 | 0 | 0 | | | | | 2 |
| Injuries | | | 14 | 0 | | 0 | 0 | 0 | | | | | 14 |
| ALASKA
(None) | | | | | | | | | | | | | |
| ARIZ. | | | | | | | | | | | | | |
| Number | | | | | | | 1 | 1 | 1 | | | | 3 |
| Days | | | | | | | 1 | 1 | 1 | | | | 3 |
| Deaths | | | | | | | 0 | 0 | 0 | | | | 0 |
| Injuries | | | | | | | 0 | 0 | 0 | | | | 0 |
| ARK. | | | | | | | | | | | | | |
| Number | | | | 9 | | 1 | | 1 | 2 | 2 | 4 | | 19 |
| Days | | | | 3 | | 1 | | 1 | 2 | 2 | 1 | | 10 |
| Deaths | | | | 0 | | 1 | | 0 | 0 | 0 | 1 | | 1 |
| Injuries | | | | 2 | | 11 | | 0 | 5 | 4 | 30 | | 85 |
| CALIF. | | | | | | | | | | | | | |
| Number | | | | 1 | | 1 | | | | | | | 2 |
| Days | | | | 1 | | 1 | | | | | | | 2 |
| Deaths | | | | 0 | | 0 | | | | | | | 0 |
| Injuries | | | | 0 | | 0 | | | | | | | 0 |
| COLO. | | | | | | | | | | | | | |
| Number | | | | | | 1 | 2 | 1 | 1 | | | | 5 |
| Days | | | | | | 1 | 2 | 1 | 1 | | | | 5 |
| Deaths | | | | | | 0 | 0 | 0 | 0 | | | | 0 |
| Injuries | | | | | | 0 | 0 | 0 | 0 | | | | 0 |
| CONN. | | | | | | | | | | | | | |
| Number | | | | | | | | | | 1 | | | 1 |
| Days | | | | | | | | | | 1 | | | 1 |
| Deaths | | | | | | | | | | 0 | | | 0 |
| Injuries | | | | | | | | | | 1 | | | 1 |
| DEL.
(None) | | | | | | | | | | | | | |
| D. C.
(None) | | | | | | | | | | | | | |
| FLA. | | | | | | | | | | | | | |
| Number | 6 | 8 | 4 | 1 | 1 | 5 | 14 | 7 | | | | | 46 |
| Days | 3 | 2 | 3 | 1 | 1 | 5 | 8 | 4 | | | | | 27 |
| Deaths | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | 0 |
| Injuries | 4 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | | | | | 11 |
| GA. | | | | | | | | | | | | | |
| Number | 1 | 1 | 1 | 7 | 4 | 1 | 3 | | | | 2 | | 20 |
| Days | 1 | 1 | 1 | 3 | 4 | 1 | 2 | | | | 2 | | 15 |
| Deaths | 0 | 0 | 0 | 0 | 0 | 0 | 1 | | | | 0 | | 1 |
| Injuries | 0 | 2 | 1 | 7 | 0 | 0 | 3 | | | | 5 | | 48 |
| HAWAII
(None) | | | | | | | | | | | | | |
| IDAHO
(None) | | | | | | | | | | | | | |
| ILL. | | | | | | | | | | | | | |
| Number | | | 1 | 3 | 2 | 7 | 2 | | 2 | | | | 17 |
| Days | | | 1 | 2 | 2 | 3 | 2 | | 2 | | | | 12 |
| Deaths | | | 0 | 0 | 0 | 0 | 0 | | 0 | | | | 0 |
| Injuries | | | 1 | 0 | 0 | 0 | 1 | | 0 | | | | 2 |
| IND. | | | | | | | | | | | | | |
| Number | | | | 9 | 5 | 2 | | | 2 | | 1 | | 19 |
| Days | | | | 3 | 2 | 2 | | | 1 | | 1 | | 9 |
| Deaths | | | | 0 | 0 | 0 | | | 0 | | 0 | | 0 |
| Injuries | | | | 6 | 0 | 0 | | | 4 | | 2 | | 12 |
| IOWA | | | | | | | | | | | | | |
| Number | | | | 1 | 8 | 3 | 5 | | 4 | 1 | | | 22 |
| Days | | | | 1 | 5 | 3 | 3 | | 1 | 1 | | | 14 |
| Deaths | | | | 0 | 0 | 0 | 0 | | 0 | 0 | | | 0 |
| Injuries | | | | 0 | 0 | 0 | 0 | | 16 | 0 | | | 16 |
| KANS. | | | | | | | | | | | | | |
| Number | | | 2 | | 10 | 12 | 1 | 1 | 2 | | 1 | | 29 |
| Days | | | 1 | | 5 | 7 | 1 | 1 | 2 | | 1 | | 18 |
| Deaths | | | 0 | | 0 | 0 | 0 | 0 | 0 | | 0 | | 0 |
| Injuries | | | 10 | | 0 | 5 | 0 | 0 | 0 | | 0 | | 15 |
| KY. | | | | | | | | | | | | | |
| Number | | | | 4 | | 1 | | | 1 | | 1 | | 7 |
| Days | | | | 3 | | 1 | | | 1 | | 1 | | 6 |
| Deaths | | | | 0 | | 0 | | | 0 | | 0 | | 0 |
| Injuries | | | | 13 | | 0 | | | 2 | | 18 | | 33 |
| LA. | | | | | | | | | | | | | |
| Number | 1 | | 2 | 2 | 3 | 2 | 2 | | 2 | | 1 | | 15 |
| Days | 1 | | 1 | 2 | 2 | 2 | 2 | | 2 | | 1 | | 13 |
| Deaths | 0 | | 0 | 0 | 0 | 0 | 0 | | 1 | | 0 | | 1 |
| Injuries | 0 | | 12 | 2 | 0 | 0 | 0 | | 2 | | 0 | | 16 |
| MAINE | | | | | | | | | | | | | |
| Number | | | | | | | | | | 2 | | | 2 |
| Days | | | | | | | | | | 1 | | | 1 |
| Deaths | | | | | | | | | | 0 | | | 0 |
| Injuries | | | | | | | | | | 0 | | | 0 |
| MD
(None) | | | | | | | | | | | | | |
| MASS. | | | | | | | | | | | | | |
| Number | | | | | | | | | | | | | |
| Days | | | | | | | | | | | | | |
| Deaths | | | | | | | | | | | | | |
| Injuries | | | | | | | | | | | | | |
| MICH. | | | | | | | | | | | | | |
| Number | | | | | | | | | | | | | |
| Days | | | | | | | | | | | | | |
| Deaths | | | | | | | | | | | | | |
| Injuries | | | | | | | | | | | | | |
| MINN. | | | | | | | | | | | | | |
| Number | | | | | | | | | | | | | |
| Days | | | | | | | | | | | | | |
| Deaths | | | | | | | | | | | | | |
| Injuries | | | | | | | | | | | | | |
| MISS. | | | | | | | | | | | | | |
| Number | | | 3 | 1 | 5 | 2 | 3 | 1 | 1 | 1 | 8 | | 27 |
| Days | | | 1 | 1 | 4 | 1 | 3 | 1 | 1 | 1 | 1 | | 16 |
| Deaths | | | 1 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | | 5 |
| Injuries | | | 10 | 0 | 88 | 4 | 0 | 0 | 0 | 0 | 5 | | 107 |
| MO. | | | | | | | | | | | | | |
| Number | | | | 2 | 7 | 5 | 15 | 2 | 1 | 3 | 2 | | 37 |
| Days | | | | 1 | 1 | 3 | 5 | 2 | 1 | 3 | 2 | | 22 |
| Deaths | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |
| Injuries | | | | 0 | 6 | 0 | 4 | 7 | 3 | 0 | 0 | | 20 |
| MONT. | | | | | | | | | | | | | |
| Number | | | | | | | | | | | | | |
| Days | | | | | | | | | | | | | |
| Deaths | | | | | | | | | | | | | |
| Injuries | | | | | | | | | | | | | |
| NEBR. | | | | | | | | | | | | | |
| Number | | | | | | | | | | | | | |
| Days | | | | | | | | | | | | | |
| Deaths | | | | | | | | | | | | | |
| Injuries | | | | | | | | | | | | | |
| NEV. | | | | | | | | | | | | | |
| Number | | | | | | | | | | | | | |
| Days | | | | | | | | | | | | | |
| Deaths | | | | | | | | | | | | | |
| Injuries | | | | | | | | | | | | | |
| N. H. | | | | | | | | | | | | | |
| Number | | | | | | | | | | | | | |
| Days | | | | | | | | | | | | | |
| Deaths | | | | | | | | | | | | | |
| Injuries | | | | | | | | | | | | | |
| N. J. | | | | | | | | | | | | | |
| Number | | | | | | | | | | | | | |
| Days | | | | | | | | | | | | | |
| Deaths | | | | | | | | | | | | | |
| Injuries | | | | | | | | | | | | | |
| N. MEX. | | | | | | | | | | | | | |
| Number | | | | | | | | | | | | | |
| Days | | | | | | | | | | | | | |
| Deaths | | | | | | | | | | | | | |
| Injuries | | | | | | | | | | | | | |
| N. Y. | | | | | | | | | | | | | |
| Number | | | | | | | | | | | | | |
| Days | | | | | | | | | | | | | |
| Deaths | | | | | | | | | | | | | |
| Injuries | | | | | | | | | | | | | |
| N. CAR. | | | | | | | | | | | | | |
| Number | | | | | | | | | | | | | |
| Days | | | | | | | | | | | | | |
| Deaths | | | | | | | | | | | | | |
| Injuries | | | | | | | | | | | | | |
| N. DAK. | | | | | | | | | | | | | |
| Number | | | | | | | | | | | | | |
| Days | | | | | | | | | | | | | |
| Deaths | | | | | | | | | | | | | |
| Injuries | | | | | | | | | | | | | |
| OHIO | | | | | | | | | | | | | |
| Number | | | | | | | | | | | | | |
| Days | | | | | | | | | | | | | |
| Deaths | | | | | | | | | | | | | |
| Injuries | | | | | | | | | | | | | |
| OKLA. | | | | | | | | | | | | | |
| Number | | | | | | | | | | | | | |
| Days | | | | | | | | | | | | | |
| Deaths | | | | | | | | | | | | | |
| Injuries | | | | | | | | | | | | | |
| OREG. | | | | | | | | | | | | | |
| Number | | | | | | | | | | | | | |
| Days | | | | | | | | | | | | | |
| Deaths | | | | | | | | | | | | | |
| Injuries | | | | | | | | | | | | | |

TABLE 1. TORNADO SUMMARY 1970

| STATE | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sep. | Oct. | Nov. | Dec. | Year |
|----------|------|------|------|------|-----|------|------|------|------|------|------|------|------|
| PA. | | | | | | | | | | | | | |
| Number | | | 1 | | | 2 | 4 | 4 | 1 | | | | 12 |
| Days | | | 1 | | | 1 | 3 | 1 | 1 | | | | 7 |
| Deaths | | | 0 | | | 0 | 0 | 0 | 0 | | | | 1 |
| Injuries | | | 0 | | | 3 | 0 | 3 | 5 | | | | 10 |
| P.R. | | | | | | | | | | | | | |
| (None) | | | | | | | | | | | | | |
| R.I. | | | | | | | | | | | | | |
| (None) | | | | | | | | | | | | | |
| S. CAR. | | | | | | | | | | | | | |
| Number | | | | 1 | 1 | | | | | | | | 2 |
| Days | | | | 1 | 1 | | | | | | | | 2 |
| Deaths | | | | 0 | 0 | | | | | | | | 0 |
| Injuries | | | | 0 | 0 | | | | | | | | 0 |
| S. Dak. | | | | | | | | | | | | | |
| Number | | | | 1 | 2 | 21 | 6 | | 1 | | | | 31 |
| Days | | | | 1 | 1 | 5 | 4 | | 1 | | | | 12 |
| Deaths | | | | 0 | 0 | 0 | 1 | | 0 | | | | 1 |
| Injuries | | | | 0 | 0 | 0 | 2 | | 0 | | | | 2 |
| TENN. | | | | | | | | | | | | | |
| Number | | | | 10 | | 2 | 1 | | 1 | | 1 | | 15 |
| Days | | | | 4 | | 2 | 1 | | 1 | | 0 | | 9 |
| Deaths | | | | 2 | | 0 | 0 | | 0 | | 0 | | 2 |
| Injuries | | | | 105 | | 1 | 1 | | 0 | | 1 | | 108 |
| TEX. | | | | | | | | | | | | | |
| Number | 1 | 3 | 5 | 23 | 23 | 9 | 5 | 20 | 9 | 20 | | 3 | 121 |
| Days | 1 | 1 | 1 | 5 | 10 | 8 | 3 | 8 | 6 | 0 | | 1 | 50 |
| Deaths | 0 | 0 | 0 | 23 | 26 | 1 | 1 | 0 | 0 | 0 | | 0 | 51 |
| Injuries | 0 | 2 | 0 | 150 | 542 | 16 | 3 | 1 | 0 | 21 | | 0 | 736 |
| UTAH | | | | | | | | | | | | | |
| Number | | | | 1 | | 3 | | | | | | 1 | 5 |
| Days | | | | 1 | | 3 | | | | | | 1 | 5 |
| Deaths | | | | 0 | | 0 | | | | | | 0 | 0 |
| Injuries | | | | 1 | | 0 | | | | | | 0 | 1 |

| STATE | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sep. | Oct. | Nov. | Dec. | Year |
|----------|------|------|------|------|-----|------|------|------|------|------|------|------|------|
| VT. | | | | | | | | | | | | | |
| Number | | | | | | | | | | | | | 1 |
| Days | | | | | | | | | | | | | 1 |
| Deaths | | | | | | | | | | | | | 0 |
| Injuries | | | | | | | | | | | | | 7 |
| VA. | | | | | | | | | | | | | |
| Number | | | | | | 2 | 2 | | | | | | 4 |
| Days | | | | | | 1 | 2 | | | | | | 3 |
| Deaths | | | | | | 0 | 0 | | | | | | 0 |
| Injuries | | | | | | 0 | 0 | | | | | | 0 |
| WASH. | | | | | | | | | | | | | |
| Number | | | | | | 1 | | | | | 1 | | 2 |
| Days | | | | | | 1 | | | | | 1 | | 2 |
| Deaths | | | | | | 0 | | | | | 0 | | 0 |
| Injuries | | | | | | 0 | | | | | 0 | | 0 |
| W. VA. | | | | | | | | | | | | | |
| Number | | | | | | 1 | | | | | | | 4 |
| Days | | | | | | 1 | | 1 | | | | | 4 |
| Deaths | | | | | | 0 | | 0 | | | | | 0 |
| Injuries | | | | | | 0 | | 0 | | | | | 0 |
| WIS. | | | | | | | | | | | | | |
| Number | | | | | | 3 | 8 | | 4 | 1 | | 5 | 28 |
| Days | | | | | | 2 | 5 | | 2 | 1 | | 4 | 15 |
| Deaths | | | | | | 0 | 0 | | 0 | 0 | | 0 | 0 |
| Injuries | | | | | | 0 | 0 | | 0 | 1 | | 0 | 8 |
| WYO. | | | | | | | | | | | | | |
| (None) | | | | | | | | | | | | | |
| TOTAL | | | | | | | | | | | | | |
| Number | 9 | 15 | 25 | *117 | *88 | *134 | 79 | *54 | *54 | *50 | 10 | 14 | *649 |
| Days* | 5 | 3 | 12 | 16 | 19 | 24 | 26 | 21 | 20 | 13 | 4 | 8 | 171 |
| Deaths | 0 | 1 | 2 | 29 | 26 | 6 | 3 | 0 | 0 | 6 | 0 | 0 | 73 |
| Injuries | 4 | 14 | 45 | 437 | 359 | 100 | 29 | 22 | 35 | 120 | 51 | 5 | 1421 |

*Corrected for boundary-crossing tornadoes.

*Tornado days for Country as a whole.

TABLE 2 -- NUMBER OF TORNADES, TORNADO DAYS, AND DEATHS BY MONTHS, 1951-70

| | January | | | February | | | March | | | April | | | May | | | June | | | July | | |
|-------|---------|------|--------|----------|------|--------|--------|------|--------|--------|------|--------|--------|------|--------|--------|------|--------|--------|------|--------|
| Year | Number | Days | Deaths | Number | Days | Deaths | Number | Days | Deaths | Number | Days | Deaths | Number | Days | Deaths | Number | Days | Deaths | Number | Days | Deaths |
| 1953 | 14 | 6 | 0 | 17 | 3 | 3 | 40 | 10 | 24 | 45 | 16 | 34 | 99 | 21 | 162 | 114 | 24 | 244 | 40 | 19 | 0 |
| 1954 | 2 | 1 | 0 | 19 | 9 | 2 | 69 | 13 | 10 | 117 | 22 | 3 | 97 | 22 | 8 | 101 | 26 | 5 | 46 | 23 | 0 |
| 1955 | 2 | 2 | 0 | 4 | 3 | 0 | 41 | 15 | 4 | 101 | 18 | 7 | 150 | 26 | 103 | 148 | 28 | 2 | 50 | 21 | 5 |
| 1956 | 2 | 2 | 0 | 47 | 12 | 8 | 31 | 7 | 1 | 87 | 15 | 67 | 88 | 24 | 4 | 66 | 21 | 0 | 101 | 26 | 1 |
| 1957 | 17 | 3 | 11 | 5 | 3 | 0 | 39 | 7 | 1 | 216 | 21 | 29 | 226 | 26 | 87 | 148 | 25 | 14 | 54 | 19 | 0 |
| 1958 | 12 | 7 | 0 | 20 | 5 | 13 | 15 | 10 | 0 | 78 | 19 | 4 | 69 | 21 | 0 | 128 | 27 | 42 | 119 | 30 | 1 |
| 1959 | 15 | 2 | 3 | 19 | 5 | 21 | 42 | 11 | 9 | 30 | 12 | 1 | 225 | 28 | 8 | 73 | 23 | 2 | 62 | 24 | 0 |
| 1960 | 9 | 4 | 0 | 28 | 10 | 0 | 27 | 10 | 0 | 70 | 20 | 7 | 200 | 26 | 34 | 123 | 27 | 3 | 48 | 22 | 1 |
| 1961 | 1 | 1 | 0 | 31 | 8 | 0 | 121 | 17 | 7 | 73 | 19 | 3 | 135 | 25 | 23 | 101 | 23 | 2 | 77 | 27 | 0 |
| 1962 | 11 | 3 | 1 | 25 | 7 | 0 | 37 | 9 | 17 | 41 | 8 | 1 | 201 | 22 | 3 | 173 | 29 | 0 | 75 | 26 | 0 |
| 1963 | 14 | 5 | 1 | 6 | 3 | 0 | 49 | 12 | 8 | 82 | 14 | 16 | 69 | 21 | 1 | 93 | 23 | 0 | 62 | 26 | 0 |
| 1964 | 14 | 3 | 10 | 2 | 2 | 0 | 36 | 11 | 6 | 161 | 23 | 15 | 135 | 20 | 16 | 144 | 24 | 0 | 61 | 23 | 0 |
| 1965 | 21 | 11 | 0 | 29 | 4 | 0 | 33 | 9 | 2 | 130 | 20 | 264 | 271 | 25 | 19 | 149 | 28 | 6 | 86 | 26 | 0 |
| 1966 | 1 | 1 | 0 | 23 | 5 | 0 | 10 | 6 | 58 | 81 | 20 | 12 | 98 | 17 | 0 | 124 | 28 | 20 | 92 | 27 | 3 |
| 1967 | 40 | 4 | 7 | 8 | 5 | 0 | 40 | 14 | 3 | 146 | 18 | 73 | 112 | 25 | 3 | 205 | 28 | 8 | 88 | 25 | 1 |
| 1968 | 5 | 3 | 0 | 7 | 3 | 0 | 28 | 8 | 0 | 104 | 15 | 40 | 140 | 26 | 72 | 137 | 27 | 11 | 54 | 22 | 2 |
| 1969 | 3 | 1 | 32 | 5 | 3 | 0 | 8 | 2 | 1 | 67 | 15 | 2 | 144 | 25 | 4 | 136 | 28 | 7 | 99 | 27 | 0 |
| 1970 | 9 | 5 | 0 | 15 | 3 | 1 | 25 | 12 | 2 | 117 | 16 | 29 | 88 | 19 | 26 | 134 | 24 | 6 | 79 | 26 | 3 |
| TOTAL | 192 | 64 | 67 | 310 | 95 | 48 | 691 | 183 | 153 | 1746 | 311 | 607 | 2553 | 419 | 573 | 2297 | 465 | 372 | 1293 | 439 | 17 |
| MEAN | 11 | 3 | 4 | 17 | 5 | 3 | 38 | 10 | 8 | 97 | 17 | 34 | 142 | 23 | 32 | 128 | 26 | 21 | 72 | 24 | 1 |

TABLE 2 -- NUMBER OF TORNADES, TORNADO DAYS, AND DEATHS BY MONTHS, 1953-70 Continued

| | August | | | September | | | October | | | November | | | December | | | Annual | | |
|-------|--------|------|--------|-----------|------|--------|---------|------|--------|----------|------|--------|----------|------|--------|--------|------|--------|
| Year | Number | Days | Deaths | Number | Days | Deaths | Number | Days | Deaths | Number | Days | Deaths | Number | Days | Deaths | Number | Days | Deaths |
| 1953 | 26 | 15 | 0 | 5 | 4 | 0 | 6 | 4 | 0 | 11 | 8 | 0 | 20 | 8 | 49 | 437 | 136 | 516 |
| 1954 | 46 | 21 | 1 | 20 | 10 | 3 | 15 | 8 | 2 | 2 | 1 | 0 | 16 | 3 | 1 | 549 | 159 | 35 |
| 1955 | 41 | 18 | 0 | 16 | 8 | 2 | 23 | 7 | 1 | 20 | 4 | 1 | 3 | 2 | 0 | 593 | 153 | 125 |
| 1956 | 43 | 20 | 2 | 19 | 10 | 0 | 30 | 8 | 0 | 8 | 6 | 0 | 10 | 4 | 0 | 532 | 155 | 83 |
| 1957 | 26 | 14 | 0 | 17 | 10 | 2 | 17 | 11 | 2 | 61 | 11 | 25 | 38 | 4 | 18 | 864 | 154 | 191 |
| 1958 | 45 | 20 | 1 | 24 | 14 | 1 | 9 | 6 | 1 | 45 | 6 | 0 | 1 | 1 | 0 | 565 | 168 | 66 |
| 1959 | 37 | 18 | 0 | 54 | 15 | 14 | 19 | 10 | 0 | 11 | 1 | 0 | 2 | 2 | 0 | 589 | 156 | 58 |
| 1960 | 11 | 1 | 0 | 21 | 13 | 0 | 18 | 10 | 1 | 25 | 6 | 0 | 1 | 1 | 0 | 618 | 172 | 47 |
| 1961 | 25 | 16 | 0 | 53 | 16 | 15 | 13 | 5 | 0 | 36 | 7 | 1 | 16 | 5 | 0 | 682 | 169 | 51 |
| 1962 | 49 | 21 | 6 | 27 | 11 | 0 | 12 | 10 | 1 | 5 | 4 | 0 | 2 | 2 | 0 | 658 | 152 | 28 |
| 1963 | 27 | 13 | 2 | 33 | 13 | 3 | 14 | 5 | 0 | 12 | 6 | 0 | 0 | 0 | 0 | 461 | 141 | 31 |
| 1964 | 79 | 23 | 2 | 24 | 10 | 0 | 24 | 4 | 22 | 15 | 8 | 0 | 18 | 5 | 2 | 713 | 156 | 73 |
| 1965 | 60 | 23 | 2 | 63 | 21 | 0 | 15 | 4 | 0 | 35 | 6 | 5 | 7 | 4 | 0 | 899 | 181 | 298 |
| 1966 | 48 | 21 | 1 | 23 | 13 | 0 | 29 | 6 | 6 | 20 | 3 | 13 | 11 | 3 | 0 | 570 | 150 | 99 |
| 1967 | 29 | 16 | 2 | 139 | 16 | 5 | 34 | 7 | 4 | 8 | 5 | 0 | 63 | 10 | 10 | 912 | 173 | 116 |
| 1968 | 69 | 23 | 2 | 24 | 14 | 0 | 14 | 9 | 0 | 41 | 12 | 3 | 32 | 9 | 1 | 661 | 171 | 131 |
| 1969 | 68 | 21 | 15 | 20 | 11 | 4 | 26 | 10 | 0 | 5 | 3 | 0 | 23 | 7 | 1 | 604 | 155 | 66 |
| 1970 | 54 | 21 | 0 | 34 | 20 | 0 | 50 | 13 | 6 | 10 | 4 | 0 | 11 | 8 | 0 | 649 | 171 | 73 |
| TOTAL | 823 | 347 | 36 | 636 | 229 | 49 | 368 | 137 | 48 | 370 | 103 | 35 | 277 | 78 | 82 | 11556 | 2870 | 2087 |
| MEAN | 49 | 19 | 2 | 35 | 13 | 3 | 20 | 8 | 3 | 21 | 6 | 2 | 15 | 4 | 4 | 642 | 159 | 116 |

AVERAGE NUMBER OF TORNADOES AND TORNADO DAYS EACH MONTH IN THE UNITED STATES

(Based on 11,556 Tornadoes That Occurred from 1953 to 1970)

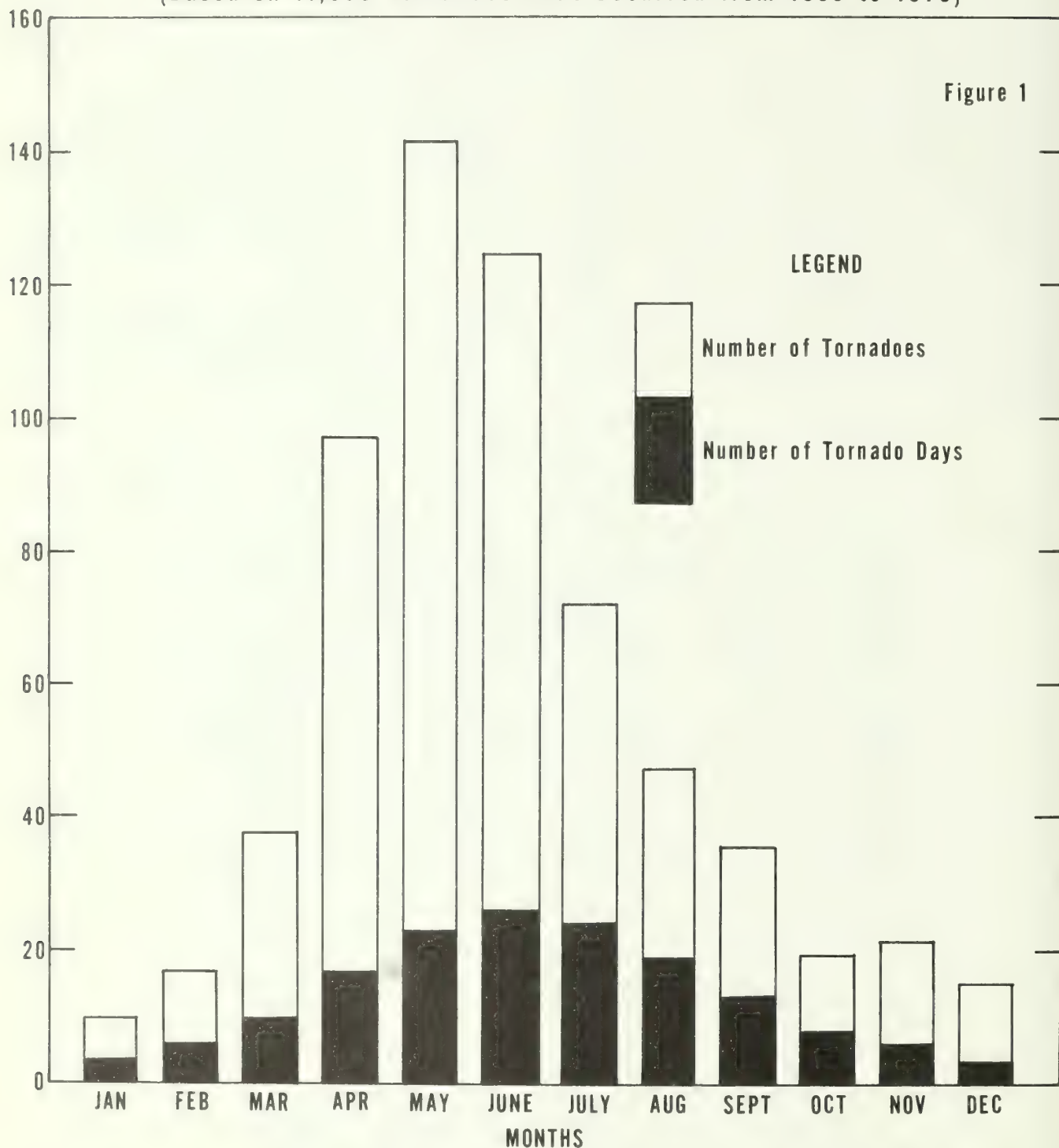


TABLE 3. NUMBER OF TORNADES, TORNADO DAYS, AND RESULTING LOSSES BY YEARS, 1916-70

| YEAR | Number
torna-
does | Number
Tornado
days | Total
Deaths | Most
deaths in
a single
tornado | Total
property
losses † | Number of tornadoes
causing losses † in | | |
|-------------------|--------------------------|---------------------------|-----------------|--|-------------------------------|--|---------------|----------------------|
| | | | | | | category
5 | category
6 | category
7 & over |
| 1916 | 90 | 36 | 150 | 30 | 6 | 7 | 1 | 0 |
| 1917 | 121 | 38 | 509 | 101 | 7 | 21 | 9 | 0 |
| 1918 | 81 | 45 | 135 | 36 | 7 | 20 | 5 | 0 |
| 1919 | 64 | 35 | 206 | 59 | 7 | 10 | 2 | 0 |
| 1920 | 87 | 50 | 498 | 87 | 7 | 14 | 10 | 0 |
| 1921 | 105 | 55 | 202 | 61 | 7 | 22 | 3 | 0 |
| 1922 | 108 | 64 | 135 | 16 | 7 | 27 | 5 | 0 |
| 1923 | 102 | 59 | 109 | 23 | 6 | 21 | 1 | 0 |
| 1924 | 130 | 57 | 376 | 85 | 7 | 26 | 11 | 1 |
| 1925 | 119 | 65 | 794 | 689 | 7 | 34 | 2 | 1 |
| 1926 | 111 | 57 | 144 | 23 | 6 | 28 | 0 | 0 |
| 1927 | 163 | 62 | 540 | 92 | 7 | 42 | 9 | 1 |
| 1928 | 203 | 79 | 92 | 14 | 7 | 40 | 7 | 0 |
| 1929 | 197 | 74 | 274 | 40 | 7 | 48 | 4 | 0 |
| 1930 | 192 | 72 | 179 | 41 | 7 | 38 | 6 | 0 |
| 1931 | 94 | 57 | 36 | 6 | 6 | 14 | 1 | 0 |
| 1932 | 151 | 67 | 394 | 37 | 7 | 23 | 1 | 1 |
| 1933 | 258 | 96 | 362 | 34 | 7 | 46 | 9 | 0 |
| 1934 | 147 | 77 | 47 | 6 | 6 | 10 | 3 | 0 |
| 1935 | 180 | 77 | 70 | 11 | 6 | 29 | 0 | 0 |
| 1936 | 151 | 71 | 552 | 216 | 7 | 17 | 5 | 1 |
| 1937 | 147 | 75 | 29 | 5 | 6 | 24 | 0 | 0 |
| 1938 | 213 | 76 | 183 | 32 | 7 | 29 | 6 | 0 |
| 1939 | 152 | 75 | 87 | 27 | 7 | 21 | 3 | 0 |
| 1940 | 124 | 62 | 65 | 18 | 7 | 13 | 2 | 0 |
| 1941 | 118 | 57 | 53 | 25 | 6 | 24 | 1 | 0 |
| 1942 | 167 | 66 | 384 | 65 | 7 | 42 | 10 | 0 |
| 1943 | 152 | 61 | 58 | 5 | 7 | 28 | 8 | 0 |
| 1944 | 169 | 68 | 275 | 100 | 7 | 50 | 9 | 0 |
| 1945 | 121 | 66 | 210 | 69 | 7 | 21 | 10 | 1 |
| 1946 | 106 | 65 | 78 | 15 | 7 | 29 | 7 | 0 |
| 1947 | 165 | 78 | 313 | 169 | 7 | 46 | 7 | 1 |
| 1948 | 183 | 68 | 140 | 33 | 7 | 62 | 11 | 2 |
| 1949 | 249 | 80 | 212 | 58 | 7 | 54 | 13 | 0 |
| 1950 | 199 | 88 | 70 | 18 | 7 | 47 | 9 | 0 |
| 1951 | 272 | 113 | 34 | 6 | 7 | 35 | 11 | 2 |
| 1952 | 236 | 98 | 230 | 57 | 7 | 53 | 19 | 0 |
| 1953 | 437 | 136 | 516 | 116 | 8 | 63 | 18 | 7 |
| 1954 | 549 | 159 | 35 | 6 | 7 | 63 | 8 | 1 |
| 1955 | 593 | 153 | 125 | 80 | 7 | 74 | 13 | 1 |
| 1956 | 532 | 155 | 83 | 25 | 7 | 83 | 24 | 1 |
| 1957 | 864 | 154 | 191 | 44 | 8 | 129 | 26 | 3 |
| 1958 | 565 | 166 | 66 | 19 | 7 | 70 | 8 | 1 |
| 1959 | 589 | 156 | 58 | 21 | 7 | 70 | 4 | 1 |
| 1960 | 618 | 172 | 47 | 16 | 7 | 65 | 11 | 1 |
| 1961 | 682 | 169 | 51 | 16 | 7 | 103 | 21 | 1 |
| 1962 | 658 | 152 | 28 | 17 | 7 | 51 | 10 | 0 |
| 1963 | 461 | 141 | 31 | 5 | 7 | 77 | 15 | 1 |
| 1964 | 713 | 156 | 73 | 22 | 7 | 113 | 17 | 5 |
| 1965 | 899 | 181 | 298 | 44 | 8 | 126 | 30 | 11 |
| 1966 | 570 | 150 | 99 | 58 | 8 | 79 | 13 | 4 |
| 1967 | 912 | 173 | 116 | 33 | 8 | 125 | 33 | 8 |
| 1968 | 661 | 171 | 131 | 34 | 8 | 82 | 26 | 6 |
| 1969 | 604 | 155 | 66 | 32 | 8 | 98 | 16 | 3 |
| 1970 | 649 | 171 | 73 | 26 | 8 | 97 | 24 | 6 |
| Means:
1953-70 | 642 | 159 | 116 | -- | - | 87 | 18 | 3 |

NOTE: -- The above estimated losses are based on values at time of occurrence.

† Storm damages in categories:

5. \$50,000 to \$500,000

7. \$5,000,000 to \$50,000,000

6. \$500,000 to \$5,000,000

8. \$50,000,000 and over.

TABLE 4 -- NUMBER OF FUNNEL CLOUDS IN 1970

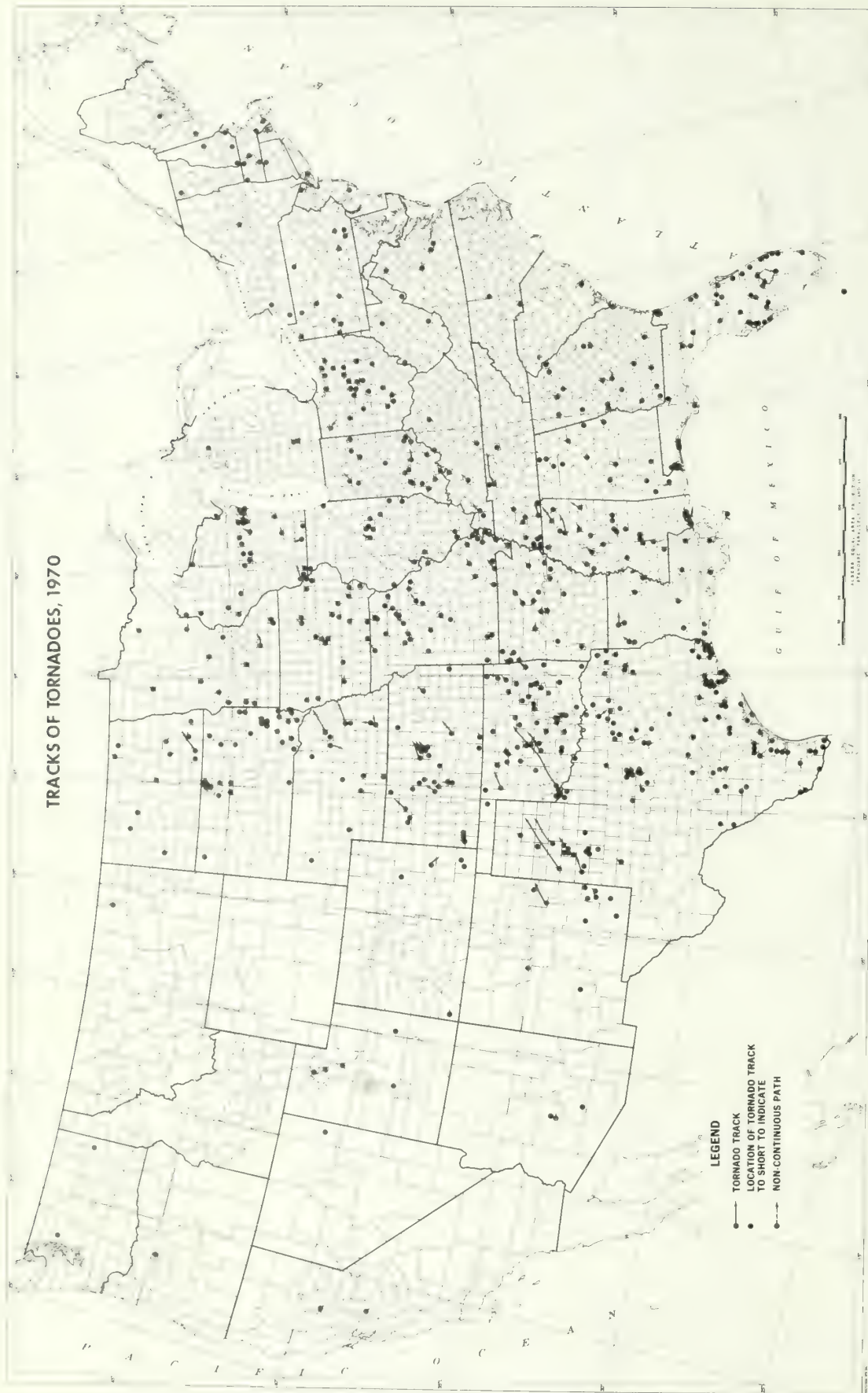
| State | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sep. | Oct. | Nov. | Dec. | Total |
|--------|------|------|------|------|-----|------|------|------|------|------|------|------|-------|
| Ala. | | | | | 1 | | 5 | 3 | | | | | 9 |
| Alaska | | | | | | | | | | | | | 0 |
| Ariz. | | | | | | | | | | | | | 0 |
| Ark. | | | 1 | 1 | 1 | 6 | 3 | | | 2 | | | 13 |
| Calif. | | 1 | 1 | | | | 2 | | | | 1 | | 5 |
| Colo. | | | | | 2 | 3 | 6 | 2 | | | | | 13 |
| Conn. | | | | | | | | | | | | | 0 |
| Del. | | | | | | | | | | | | | 0 |
| D.C. | | | | | | | | | | | | | 0 |
| Fla. | | 1 | 2 | 3 | 3 | 31 | 22 | 28 | 15 | 12 | 5 | 2 | 124 |
| Ga. | | 1 | 1 | | 5 | | 1 | 1 | | | | | 9 |
| Hawaii | | | | | | | | | 1 | | 1 | | 2 |
| Idaho | | | | | | | | | | | | | 0 |
| Ill. | | | | 3 | 26 | 20 | 13 | 1 | 1 | | 1 | | 65 |
| Ind. | | | | 7 | 14 | 12 | 8 | | 1 | | | | 42 |
| Iowa | | | | 3 | 32 | 15 | 5 | 2 | 5 | 3 | | | 65 |
| Kans. | | | 1 | | 29 | 29 | | 1 | 3 | | | | 63 |
| Ky. | | | 1 | 7 | 6 | 5 | 1 | | | | | | 20 |
| La. | | 1 | | 1 | 6 | 6 | 15 | 16 | 1 | | | 1 | 47 |
| Maine | | | | | | | | | | | | | 0 |
| Md. | | | | | | | 1 | | | | | | 1 |
| Mass. | | | | | | | | | | | | | 0 |
| Mich. | | | | 2 | 2 | 6 | | | | | | | 10 |
| Minn. | | | | | | | 28 | 5 | | | | | 33 |
| Miss. | | 1 | | 3 | | 7 | 9 | 2 | | 3 | | 6 | 31 |
| Mo. | | | | 11 | 16 | 26 | | | 6 | | | | 59 |
| Mont. | | | | | | | 8 | | | | | | 8 |
| Nebr. | | | | 1 | 6 | 15 | | | 3 | 1 | | | 26 |
| Nev. | | | | | | 1 | | | | | | | 1 |
| N.H. | | | | | | | | | | | | | 0 |
| N.J. | | | | | | | | | | | | | 0 |
| N.Mex. | | | 1 | | | 1 | 1 | | 2 | | | | 5 |
| N.Y. | | | | | | | | | | | 1 | | 1 |
| N.C. | | | | | | | | 1 | | | 2 | | 3 |
| N.Dak. | | | | | 4 | 11 | 1 | | | | | | 16 |
| Ohio | | | | | 13 | 19 | 3 | | 2 | | | | 37 |
| Okla. | | | | 10 | 28 | 23 | 2 | | 9 | 17 | | | 89 |
| Oreg. | | | | | 1 | 2 | | | | | | | 3 |
| Pa. | | | | | | | | | | | | | 0 |
| P.R.& | | | | | | | | | | | | | |
| V.I. | | | | | | | | | | | | | 0 |
| R.I. | | | | | | | | | | | | | 0 |
| S.C. | | | | | | 1 | | | | | | | 1 |
| S.Dak. | | | | 1 | 3 | 25 | 10 | 4 | 4 | | | | 47 |
| Tenn. | | | | 2 | | 7 | 2 | 1 | 2 | | | 3 | 17 |
| Tex. | | | 1 | 12 | 76 | 31 | 14 | 25 | 33 | 25 | | | 217 |
| Utah | | | | | | 4 | 3 | 1 | 1 | | | | 9 |
| Vt. | | | | | | | | | | | | | 0 |
| Va. | | | | | | 1 | | | 1 | | | | 2 |
| Wash. | | | | | | 2 | 1 | | | | | | 3 |
| W.Va. | | | | | | | | | | | | | 0 |
| Wisc. | | | | 1 | 6 | 2 | 5 | | | | | 1 | 15 |
| Wyo. | | | | | 1 | | | | | | | | 1 |
| TOTAL | 0 | 5 | 8 | 68 | 281 | 311 | 170 | 92 | 90 | 64 | 13 | 10 | 1112 |

TABLE 5-- NUMBER OF TORNADOES, TORNADO DAYS AND DEATHS, 1953-1970

| Tornadoes | | | Tornado Days | | Deaths | | Tornadoes | | | Tornado Days | | Deaths | |
|-----------|-------|---------|--------------|---------|--------|---------|-----------|--------|---------|--------------|---------|--------|---------|
| State | Total | Average | Total | Average | Total | Average | State | Total | Average | Total | Average | Total | Average |
| Ala. | 292 | 16 | 163 | 9 | 83 | 5 | Nev. | 8 | 0 | 7 | 0 | 0 | 0 |
| Alaska | 1 | 0 | 1 | 0 | 0 | 0 | N.H. | 45 | 3 | 39 | 2 | 0 | 0 |
| Ariz. | 50 | 3 | 45 | 3 | 2 | 0 | N.J. | 22 | 1 | 20 | 1 | 0 | 0 |
| Ark. | 295 | 16 | 163 | 9 | 91 | 5 | N.Mex. | 160 | 9 | 117 | 7 | 2 | 0 |
| Calif. | 44 | 2 | 35 | 2 | 0 | 0 | N.Y. | 44 | 2 | 43 | 2 | 1 | 0 |
| Colo. | 247 | 14 | 177 | 10 | 3 | 0 | N.C. | 131 | 7 | 99 | 6 | 7 | 0 |
| Conn. | 22 | 1 | 20 | 1 | 1 | 0 | N.Dak. | 236 | 13 | 148 | 8 | 15 | 1 |
| Del. | 13 | 1 | 12 | 1 | 0 | 0 | Ohio | 203 | 11 | 123 | 7 | 100 | 6 |
| D.C. | 0 | 0 | 0 | 0 | 0 | 0 | Okla. | 1092 | 61 | 445 | 25 | 127 | 7 |
| Fla. | 481 | 27 | 339 | 19 | 40 | 2 | Oreg. | 13 | 1 | 12 | 1 | 0 | 0 |
| Ga. | 319 | 18 | 208 | 12 | 40 | 2 | Pa. | 102 | 6 | 81 | 5 | 4 | 0 |
| Hawaii | 4 | 0 | 4 | 0 | 0 | 0 | R.I. | 0 | 0 | 0 | 0 | 0 | 0 |
| Idaho | 22 | 1 | 21 | 1 | 0 | 0 | S.C. | 171 | 10 | 115 | 6 | 8 | 0 |
| Ill. | 388 | 22 | 199 | 11 | 108 | 6 | S.Dak. | 384 | 21 | 202 | 11 | 7 | 0 |
| Ind. | 396 | 22 | 190 | 11 | 146 | 8 | Tenn. | 143 | 8 | 89 | 5 | 21 | 1 |
| Iowa | 450 | 25 | 211 | 12 | 35 | 2 | Tex. | 1879 | 104 | 804 | 45 | 284 | 16 |
| Kans. | 905 | 50 | 409 | 23 | 131 | 7 | Utah | 29 | 2 | 24 | 1 | 0 | 0 |
| Ky. | 100 | 6 | 72 | 4 | 16 | 1 | Vt. | 21 | 1 | 17 | 1 | 0 | 0 |
| La. | 284 | 16 | 184 | 10 | 61 | 3 | Va. | 77 | 4 | 60 | 3 | 13 | 1 |
| Maine | 50 | 3 | 44 | 2 | 1 | 0 | Wash. | 15 | 1 | 14 | 1 | 0 | 0 |
| Md. | 33 | 2 | 29 | 2 | 1 | 0 | W.Va. | 28 | 2 | 26 | 1 | 0 | 0 |
| Mass. | 79 | 4 | 57 | 3 | 93 | 5 | Wis. | 304 | 17 | 172 | 10 | 48 | 3 |
| Mich. | 201 | 11 | 119 | 7 | 218 | 12 | Wyo. | 104 | 6 | 88 | 5 | 1 | 0 |
| Minn. | 299 | 17 | 174 | 10 | 67 | 4 | P.R. | 4 | 0 | 4 | 0 | 0 | 0 |
| Miss. | 311 | 17 | 182 | 10 | 174 | 10 | | | | | | | |
| Mo. | 533 | 30 | 256 | 14 | 98 | 5 | U.S. | *11556 | 642 | †2870 | 159 | 2087 | 116 |
| Mont. | 58 | 3 | 51 | 3 | 0 | 0 | | | | | | | |
| Nebr. | 585 | 33 | 297 | 17 | 40 | 2 | | | | | | | |

*Corrected for boundary-crossing tornadoes.
†Tornado Days for Country as a whole.

TRACKS OF TORNADOES, 1970



HAILSTORM LOSSES FOR PAST YEARS

| Year | Property
(exclusive +
of crops) | Crops + | Total + | Year | Property
(exclusive +
of crops) | Crops + | Total + |
|------|---------------------------------------|---------|---------|------|---------------------------------------|---------|---------|
| 1933 | - | - | 7 | 1952 | 7 | 7 | 7 |
| 1934 | - | - | 7 | 1953 | 7 | 7 | 7 |
| 1935 | - | - | 7 | 1954 | 7 | 8 | 8 |
| 1936 | 6 | 7 | 7 | 1955 | 7 | 7 | 8 |
| 1937 | 6 | 7 | 7 | 1956 | 7 | 8 | 8 |
| 1938 | 6 | 7 | 7 | 1957 | 7 | 8 | 8 |
| 1939 | 5 | 6 | 6 | 1958 | 7 | 8 | 8 |
| 1940 | 6 | 7 | 7 | 1959 | 6 | 7 | 7 |
| 1941 | 6 | 7 | 7 | 1960 | 7 | 8 | 8 |
| 1942 | 6 | 7 | 7 | 1961 | 8 | 8 | 8 |
| 1943 | 6 | 7 | 7 | 1962 | 9 | 8 | 9 |
| 1944 | 7 | 7 | 8 | 1963 | 8 | 8 | 8 |
| 1945 | 6 | 7 | 7 | 1964 | 8 | 8 | 8 |
| 1946 | 7 | 7 | 7 | 1965 | 8 | 8 | 8 |
| 1947 | 6 | 8 | 8 | 1966 | 8 | 8 | 8 |
| 1948 | 7 | 8 | 8 | 1967 | 8 | 8 | 8 |
| 1949 | 7 | 7 | 7 | 1968 | 8 | 8 | 8 |
| 1950 | 7 | 7 | 7 | 1969 | 8 | 8 | 8 |
| 1951 | 7 | 7 | 8 | 1970 | 8 | 8 | 8 |

* Storm damages are placed in categories varying from 1 to 9 as follows:

| | | |
|--------------------|----------------------------|------------------------------------|
| 1 Less than \$50 | 4 \$5,000 to \$50,000 | 7 \$5,000,000 to \$50,000,000 |
| 2 \$50 to \$500 | 5 \$50,000 to \$500,000 | 8 \$50,000,000 to \$500,000,000 |
| 3 \$500 to \$5,000 | 6 \$500,000 to \$5,000,000 | 9 \$500,000,000 to \$5,000,000,000 |

NOTE.--The above estimated losses are based on values at time of occurrence.

WINDSTORM LOSSES FOR PAST YEARS

(Windstorms other than tornadoes)

| Year | Total loss of life | Total property loss + | Year | Total loss of life | Total property loss + |
|------|--------------------|-----------------------|------|--------------------|-----------------------|
| 1916 | 65 | 7 | 1944 | 448 | 8 |
| 1917 | 25 | 6 | 1945 | 85 | 7 |
| 1918 | 79 | 7 | 1946 | 70 | 7 |
| 1919 | 344 | 7 | 1947 | 117 | 8 |
| 1920 | 42 | 6 | 1948 | 52 | 8 |
| 1921 | 65 | 7 | 1949 | 102 | 8 |
| 1922 | 133 | 7 | 1950 | 210 | 8 |
| 1923 | 68 | 7 | 1951 | 289 | 8 |
| 1924 | 78 | 7 | 1952 | 137 | 8 |
| 1925 | 88 | 7 | 1953 | 118 | 8 |
| 1926 | 357 | 8 | 1954 | 292 | 9 |
| 1927 | 64 | 7 | 1955 | 301 | 8 |
| 1928 | 1,947 | 8 | 1956 | 196 | 8 |
| 1929 | 46 | 7 | 1957 | 553 | 8 |
| 1930 | 49 | 7 | 1958 | 129 | 8 |
| 1931 | 17 | 7 | 1959 | 145 | 7 |
| 1932 | 306 | 7 | 1960 | 85 | 8 |
| 1933 | 156 | 8 | 1961 | 64 | 8 |
| 1934 | 109 | 7 | 1962 | 134 | 9 |
| 1935 | 461 | 7 | 1963 | 54 | 9 |
| 1936 | 121 | 7 | 1964 | 64 | 9 |
| 1937 | 43 | 7 | 1965 | 107 | 9 |
| 1938 | 630 | 8 | 1966 | 74 | 8 |
| 1939 | 60 | 6 | 1967 | 46 | 8 |
| 1940 | 251 | 7 | 1968 | 49 | 8 |
| 1941 | 43 | 7 | 1969 | 194 | 9 |
| 1942 | 68 | 7 | 1970 | 64 | 8 |
| 1943 | 61 | 7 | | Total 9,957 | |

* Storm damages are placed in categories varying from 1 to 9 as follows:

| | | |
|--------------------|----------------------------|------------------------------------|
| 1 Less than \$50 | 4 \$5,000 to \$50,000 | 7 \$5,000,000 to \$50,000,000 |
| 2 \$50 to \$500 | 5 \$50,000 to \$500,000 | 8 \$50,000,000 to \$500,000,000 |
| 3 \$500 to \$5,000 | 6 \$500,000 to \$5,000,000 | 9 \$500,000,000 to \$5,000,000,000 |

NOTE.--The above estimated losses are based on values at time of occurrence.

NORTH ATLANTIC TROPICAL CYCLONES, 1970

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Although in 1970 the North Atlantic hurricane season got off to its earliest start since 1957, the total number of tropical cyclones reaching tropical storm strength (seven) was below the latest 30-yr. average of 9.5. Only three of these storms developed into hurricanes, again below the average of 5.9; this is the smallest number of hurricanes to form since 1962. The Gulf Coast was hard hit in 1970; four of the tropical storms or hurricanes made landfall there. One tropical storm and the year's only major hurricane hit Texas, a tropical storm crossed the Florida Panhandle, and a hurricane made landfall in Mexico. This is the first year in a 100-yr. period of record that no tropical storms or hurricanes roamed the open North Atlantic north of 25° N.

Celia, the only severe hurricane of the season, left behind a total property and crop damage of \$453.8 million and 16 dead, five of which were in Cuba. Indirectly, Celia caused eight deaths in Florida. Tropical storm Dorothy killed 51 in the West Indies, and Becky caused \$500,000 worth of damage in Florida. The other storms could not muster much punch and caused little damage.

A tropical depression which moved over the south coast of St. Lucia and entered the Caribbean Sea on October 2 brought high winds and rain to the Caribbean Islands. Barbados had gusts to 38 kt. and Caravelle, on the eastern shore of Martinique, reported 50-kt. gusts and sea swells to 12 ft. as the diffuse depression passed by. The storm then drifted westward, spreading torrential rains over the entire area. The depression moved over the Dominican Republic and re-entered the Atlantic late on the 8th. The week-long rains caused destructive floods in Puerto Rico. Jayuya had a 6-day total of 38.42 in. Aibonito had a 24-hr. total of 17.00 in. Major flooding occurred in the eastern two-thirds of the island. Property damage was estimated at \$62 million and 18 persons were killed. In the U. S. Virgin Islands, one person was killed as a result of similar flooding there.

Summaries of the named tropical cyclones follow. The tracks are shown in the accompanying chart.

HURRICANE ALMA, MAY 17-27

The first tropical cyclone of the season became only the third May hurricane to develop in a 100-yr. period of record. It became an organized depression late on May 17, and by 0000 on the 20th, tropical storm Alma had formed near 16° N., 82° W. By 1200 she had reached hurricane intensity near 18° N., 82° W.; at this time, the SOLON TURMAN was hit with a 36-kt. northeasterly gale and 10-ft. swells near 18° N., 85° W. Shortly after attaining hurricane strength, Alma recorded a minimum pressure of 993 mb. and maximum winds were estimated at 70 kt.

Alma's life proved to be short; at 0000 on the 21st, she was reduced to a tropical storm. One day later, she reached Little Cayman and Cayman Brac, 140 mi. south of Cuba. The island of Cayman Brac reported maximum winds of 56 kt. Shortly afterward, Alma began drifting toward the southwest and lost her tro-

pical storm characteristics.

The remnants of Alma moved northward over western Cuba into the eastern Gulf of Mexico. The depression dumped a large amount of rain on western Cuba; seven people were killed as a result of flooding there. Florida encountered locally heavy rain, ending an unusual drought there, as the low-pressure system passed to the west. Six and one-quarter inches of rain fell at Ft. Myers during a 12-hr. period. High winds caused some damage, but no injuries were reported. The weakening depression crossed the Florida coastline near Cedar Key early on the 25th. By 1200 on the 25th, the remains of Alma had moved over Georgia, dropping heavy rains and causing some wind damage in Georgia and South Carolina. A tornado blew the roof off a home near Columbia, S. C. The WESTERN SUN, near 32° N., 75° W., reported a 40-kt. southerly gale at 1200 on the 26th. The system moved into southern Virginia before being absorbed by a cold front on the morning of the 27th.

TROPICAL STORM BECKY, JULY 19-23

Tropical storm Becky's main impulse can be traced to a massive rain system that lay over the western Caribbean on the 18th; by 7 p.m. (e.s.t.) on the 18th, an organized depression had formed. Once reaching the Gulf of Mexico, the depression began to intensify rapidly, becoming a poorly organized tropical storm on the morning of the 20th. At 1 a.m. on the 20th, the AMMON reported a 55-kt. (63 m.p.h.) northeasterly gale near 23° N., 86° W.; Becky's central pressure reached a minimum of 1003 mb. later that day. At 0600 on the 21st the TICONDEROGA was hit by 45-kt. southeasterly winds and 13-ft. swells near 26° N., 86° W., and at 5 a.m. the SOCONY VACUUM was buffeted with 55-kt. winds. Becky remained poorly organized, however, and by 3 a.m. on the 22d she began to weaken and turn slightly toward the northeast.

Tropical storm Becky moved inland near Port St. Joe shortly after daybreak on the 22d, bringing locally heavy rain and squalls to the Florida Panhandle. Rainfall amounts ranged from 9.88 in. at Crawfordville and 8.18 in. at Tallahassee to only 1 in. at Apalachicola. Sustained winds of 29 m.p.h. with gusts to 44 m.p.h. were reported at Tallahassee, and Apalachicola reported a 32 m.p.h. sustained wind with gusts to 39 m.p.h. A tornado spawned by Becky destroyed three houses in Panacea, Fla., and a high tide of 6 ft. (3 ft. above normal) was recorded at Panacea. Becky rapidly lost tropical storm strength, but the remnants of the storm continued northward bringing rain to the Southeastern States and the Ohio Valley.

The storm moved through Georgia, Tennessee, Kentucky, and Indiana, and on the morning of the 23d dissipation was completed over Michigan, leaving behind a great deal of moisture. Haroldson County, Ga., had a storm total of 6.50 in. and 3.34 in. fell in Augusta. A tornado demolished two houses in northern Emanuel County, Ga., killing one person. However, this tornado occurred on a weakening cold front some distance from Becky and cannot be directly attributed to the tropical

NORTH ATLANTIC TROPICAL CYCLONES - CONT'D

storm. Northern Georgia and South Carolina, which had been extremely dry for weeks, received over 2 in. of much needed rain.

Becky caused a total of \$500,000 worth of damage in Florida due mainly to local flooding. The greatest concentration of damage was in the vicinity of Tallahassee. Florida reported no deaths and only two injuries as a result of Becky. The damage totals were minimal in all other areas.

HURRICANE CELIA, JULY 23-AUGUST 5

Celia was spawned by a disturbance that originated over Africa; on July 23, Dakar reported a wind shift at 10,000 ft. indicative of the passage of a tropical wave. The system moved rapidly across the Atlantic, reaching the Antilles in 5 days. On the 28th, the disturbance showed a marked deceleration, and it began to organize a closed wind circulation between Swan Island and the Cayman Islands on the 30th. By evening, a depression had formed.

The weak cyclone crossed the western tip of Cuba on the evening of the 31st and entered the Gulf of Mexico. Western Cuba was lashed with showers and squalls of 46-52 m.p.h., and five persons were reported killed. The depression intensified rapidly over the warm waters of the Gulf, and an Air Force reconnaissance plane found it had increased to tropical storm intensity on the morning of August 1; Celia had been born.

The storm continued to move on a northwest track as further intensification occurred. At 4 p.m. (e.s.t.) on the 1st, Celia was upgraded to a hurricane near 24° N., 87° W. Later that evening, the 975-mb. tempest was packing winds in excess of 87 kt. near the center. At midnight on the 1st, the AUGSTENBURG was hit with 38-kt. (44 m.p.h.) southeasterly winds as the small, intense hurricane churned across the Gulf and took aim on the southern Texas coast. One day later, the central pressure had risen to 988 mb. and the maximum winds had dropped to 78 kt.

The 15-hr. period prior to landfall brought a sudden deepening of the tropical cyclone; the central pressure fell over 40 mb. during this period while the maximum sustained winds increased to speeds in excess of 110 kt.

Hurricane Celia crossed the Texas coastline midway between Corpus Christi and Aransas Pass about 3:30 p.m. on the 3d. She moved west-northwestward across southern Texas with the storm center passing near Mathis, Fowlerton, Cotulla, Crystal City, and Del Rio. Shortly after 10 p.m. on the 3d, with the storm center over the west-central portion of McMullen County, sustained winds were most likely no longer of hurricane force. Reduced to a tropical storm, the lower portion of Celia broke up over the mountains of northern Mexico on August 4. The remnants of the surface tropical depression continued to meander westward across the Big Bend while the upper circulation moved north-westward into southwestern New Mexico.

The highest sustained wind speed measured during hurricane Celia was 130 m.p.h. from the north-northeast, occurring from 3:02 to 3:05 p.m. on the 3d at Aransas Pass. A peak gust of 161 m.p.h. from the southwest was observed at Corpus Christi Weather Service Office at 4:28 p.m. The anemometer at Aransas Pass blew away after measuring gusts to 150 m.p.h.; peak gusts were estimated at 180 m.p.h. following the passage of the eye at Aransas Pass. Robstown also estimated peak gusts at 180 m.p.h. This estimate was based on the fact that an oil derrick which was erected during

the summer (1970) and engineered to withstand winds of 175 m.p.h., blew down. Figure 1 shows the distribution of estimated maximum gusts.

Celia recorded her lowest pressure shortly after making landfall. A minimum pressure of 943 mb. (27.85 in.) was recorded on an aneroid barometer owned by Percy Kennedy of Ingleside. The Corpus Christi Weather Service Office checked this barometer on the 7th. Provided the correction found at a station reading of 29.95 in. is valid at the lower pressure, the corrected sea level pressure is 945 mb. (27.89 in.) The Cooperative Weather Observer at Aransas Pass recorded a minimum station pressure of 949 mb. (28.02 in.) at 9:45 p.m. on the 3d. The station is 18 ft. above sea level. The Central Power and Light Station at Nueces Bay recorded a sea level pressure of 950 mb. (28.05 in.).

The highest tides generated along the Texas coast by hurricane Celia were 9.2 ft. and 9.0 ft. above mean sea level at Port Aransas Beach and Port Aransas Jetty, respectively. Elsewhere, the highest tides were generally 6 ft. along the Texas coast from Corpus Christi Bay to Galveston Bay. Property damage caused by these moderate storm surges was mostly to boats and piers.

Celia was not much of a rainmaker. Heavy rains of 6-8 in. were confined to Nueces and San Patricio Counties and to the southern portion of Aransas County. The majority of the rain fell in a period of less than 24 hrs. A storm total of 8 in. (estimated) fell at the U. S. Naval Air Station at Corpus Christi, 7.24 in. fell at Robstown, 7.00 in. at Gregory, 6.50 in. at Aransas Pass, and 6.38 in. fell at the National Weather Service Station at Corpus Christi International Airport. Across southern Texas, the band of moderately heavy rains was unusually narrow. With few exceptions, rains of 2 in. or more were confined to an area only 50 mi. to either side of the hurricane center.

A total of eight tornadoes are known to have occurred in Texas in association with hurricane Celia. A review of the information available reveals that most of the tornadoes appeared to be small funnels that remained on the ground for only a short time. One man was fatally injured when struck by flying debris caused by a tornado.

Total property damage in Texas was estimated at \$444.9 million and crop damage at \$8.8 million. Property losses caused by Celia were heavy due to the fact that she unleashed her greatest fury on a major urban area. Figure 2 shows the swath of destruction Celia left behind.

The remarkable fact is that, measured in terms of total deaths, Celia ranks below most other major hurricanes. Five died in Cuba and 11 in Texas. Deaths indirectly caused by Celia occurred along the Florida Panhandle where eight people drowned in heavy surf generated by the hurricane, then approximately 300 mi. away in the center of the Gulf of Mexico. The low death toll can be attributed to the facts that Celia did not generate a severe storm surge or floods and that the disaster preparedness measures taken by the people in the hurricane's path were successful.

The American Red Cross estimated that 48,316 Texas families suffered losses. In the Texas Coastal Bend, 1,058 homes were destroyed, 5,397 homes suffered major damage, and 28,556 suffered minor damage. Destroyed or severely damaged were 1,305 trailers, 96 boats, and 391 farm buildings. The 12,570-ton Liberian freighter TRADE CARRIER was forced ashore and grounded and the 6,520-ton Norwegian vessel BE-LEVELYN was damaged at Corpus Christi.

TROPICAL CYCLONE DATA
HURRICANE CELIA
July 30-August 5, 1970

| Station | Date | Pressure
(inches) | | Wind
(miles per hour) | | | | Highest
Tide
(feet)
| Time † | Storm
Rainfall
(inches) | Remarks
P: Property
C: Crops |
|--------------------|------|----------------------|-----------|--------------------------|-----------|------------|-----------|--------------------------------|-----------|-------------------------------|---|
| | | Low | Time* | Fastest
Mile | Time* | Gusts | Time* | | | | |
| TEXAS | Aug. | | | | | | | | | | |
| ARANSAS COUNTY | | | | | | | | | | | |
| Aransas Pass | 3 | 28.03stn | 1545 | NNE 130 | 1505 | SW 180* | 1600 | | | 6.50 | Anemometer blew away at 1505 CST. |
| Austwell Wild Life | 3 | | | N 65* | 1400 | 75* | | 2.5 | 1600 | 1.10 | P: \$18,000. |
| Rockport | 3 | 28.84 | 1522 | SE 60 | 1540 | SE 96 | 1540 | 5.0 | 1600 | 1.85 | P: \$15,000,000. |
| ATASCOSA COUNTY | | | | | | | | | | | |
| Charlotte | 3 | | | NE 60* | 2300 | NE 60* | 2300 | | | 1.78 | C: Wind damage to all standing crops. |
| BEE COUNTY | | | | | | | | | | | |
| Beeville | 3 | | | N&NE 60* | 1100 | NE 75 | 2100 | | | 2.00 | P: \$500,000. C: \$200,000. |
| NWSE Chase Field | 3 | 29.01 | 1805 | NE 46 | 1700-1800 | E 68 | 1811 | | | 1.44 | |
| Skidmore | 3 | | | | | E 100-* | | | | 1.50 | P: Heavy. |
| BRAZORIA COUNTY | | | | | | | | | | | |
| Dow Chem-Freeport | 3 | 29.72 | 0500 | E 22 | 1130-1500 | E 37 | 1342 | 4.9 | 1200 | 0.85 | No damage. |
| CG Stn Freeport | 3 | 29.76 | 0630 | | | E 51 | 0716 | 4.0 | 1400 | 0.25 | No damage. |
| CALHOUN COUNTY | | | | | | | | | | | |
| Point Comfort | 3 | 29.70stn | 1400 | E 43 | 1518 | E 47 | 1515 | 4.5 MLW | | 0.40 | |
| Port O'Connor | 3 | | | ESE 50 | 1400 | ESE 80 | 1445 | | | 1.14 | P: \$25,000. |
| Port O'Connor | 3 | | | NNE 65 | 1000 | | | | | | P: Boat Sheds: \$5,000. |
| CG Stn | 3 | | | | | | | 5.8 | 1800 | | |
| Lavaca Bay Park | 3 | | | | | | | | | | |
| GALVESTON CO. | | | | | | | | | | | |
| Galveston WSO | 3 | 29.83 | 0400 | SE 31 | 0856 | SE 41 | 0900 | 3.0 | | 0.37 | P: Small; minor damage to piers and small boats. |
| HARRIS COUNTY | | | | | | | | | | | |
| Baytown | 3 | | | | | | | 5.3 | 1800 | 1.20 | |
| Houston WSO IAH | 3 | 29.74stn | 1455 | E 20 | 1106 | E 38 | 1105 | | | 0.16 | Very minor property damage caused by tides in upper Galveston Bay. |
| JEFFERSON COUNTY | | | | | | | | | | | |
| Port Arthur WSO | 3 | 29.84 | 0300 | SE 23 | 1206 | SE 38 | 1207 | 2.5 | 0630 | 0.61 | No significant damage. Minor flooding in Sabine Pass; water and debris closed highway 87 between Sabine Pass and High Island. |
| JIM WELLS COUNTY | | | | | | | | | | | |
| Alice | 3 | | | NW&WSW 70 | | SW 80* | 1900 | | | 3.63 | Eye of hurricane passed over Orange Grove about 1930-2000. |
| Sandia | 3 | | | | | S 160* | | | | 2.00 | Eye passed Sandia area about 1800. Wind came in sharp gusts. |
| LA SALLE COUNTY | | | | | | | | | | | |
| Cotulla FAA | 3-4 | 28.86stn | 2330 | N 36 | 2310 | N 68 | 2320 | | | 2.68 | P: Minor. |
| LIVE OAK COUNTY | | | | | | | | | | | |
| George West | 3 | | | | | SSE 100* | 2000-2100 | | | 0.81 | Eye about 10 mi south of George West. |
| Three Rivers | 3 | | | | | NE-NW 100* | | | | 1.38 | |
| McMULLEN COUNTY | | | | | | | | | | | |
| Tilden | 3 | | | | | NE-E 100* | 2100 | | | 1.56 | Eye of hurricane passed to south of Tilden. U.S. Navy Bombing Station in SW part of county reportedly measured wind speeds in excess of 100 m.p.h. P: \$750,000. C: \$25,000. |
| Tilden 14-S | 3 | | | | | N 100* | | | | 1.87 | |
| NUECES COUNTY | | | | | | | | | | | |
| Corpus Christi | | | | | | | | | | | |
| Corps of Eng. | 3 | 28.30 | 1600 | | | | | 4.9 | 1730 | | |
| Lipan St. CPL | 3 | 28.36 | 1600 | | | 143 | 1632 | | | | |
| Naval Air Station | 3 | 28.61 | 1535 | SSW 92 | 1555 | SSW 120 | 1555 | | | 8.00* | CPL: Central Power and Light Company. |
| Nueces Bay CPL | 3 | 28.05 | 1630-1700 | | | S 150* | 1630-1700 | | | | |
| WSO | 3 | 28.47 | 1628 | SW 125 | 1628 | SW 161 | 1628 | | | 6.38 | |
| Padre Island-Nat'l | | | | | | | | | | | |
| Seashore | 3 | 29.26 | 1400 | SW 63 | 1450 | SW 82 | 1450 | | | | F420 Anemometer. |
| Port Aransas CG | 3 | | | NNE 104 | 1433 | NNE 127 | 1433 | | | | F420 Anemometer. |
| Port Aransas Beach | 3 | | | | | | | 9.2 | | | |
| Port Aransas Jetty | 3 | | | | | | | 9.0 | 1340 | | |
| Mustang Island | 3 | | | | | | | 7.9 | | | |
| Robstown | 3 | | | | | WSW 180* | | | | 7.24 | Wind estimate based on fact that oil derrick erected to withstand 175 m.p.h. winds was blown down. |
| REFUGIO COUNTY | | | | | | | | | | | |
| Austwell | 3 | 29.35 | 1400-1500 | N-E 85* | | N-E 85* | 0900-1700 | | | | Tide 3.0 feet below MLW. |
| Bayside | 3 | 29.03 | 1503 | E 110 | 1503 | E&SE 140* | 1503-1600 | 4.0 | 1415-1430 | 3.10 | P: \$150,000. C: \$200,000. |
| Refugio 3 mi S | 3 | 29.36 | 1550 | NNE 120 | | NNE 160* | | | | | Highest gust of 142 m.p.h. recorded before standard 4-cup anemometer blew away. Estimated highest gusts 150-160 m.p.h. |
| SAN PATRICIO CO. | | | | | | | | | | | |
| Gregory, Reynolds | | | | | | | | | | | |
| Metz | 3 | 28.12 | 1550 | NNW 128 | 1520 | NNW 138 | 1515 | | | 7.00 | Eye lull, 30 minutes 1530-1600. Height of anemometer 80 feet. |
| Odem | 3 | | | | | N&S 160 | | | | 0.02 | Odem in eye of storm; calm for 15 minutes. |
| Mathis | 3 | | | N 100* | | N 150 | | | | 2.23 | |
| Inglewade | 3 | 27.89 | | | | | | | | | Small private barometer belonging to Percy Kennedy, 612 San Angelo St. compared with Weather Bureau portable precision barometer on 8/7/70. |
| Portland | 3 | | | | | N&S 160* | 1530-1630 | | | 2.50 | Portland in eye; dead calm for 30 minutes. |
| Taft | 3 | 28.10 | 1634 | | | | | | | 4.0* | P: \$5,000,000. C: \$500,000. Navy pilot reported a peak gust of 180 m.p.h. while flying in vicinity of Taft. |
| UVALDE COUNTY | | | | | | | | | | | |
| Uvalde | 4 | 29.40 | 0100 | ESE 45* | 0100-0300 | ESE 75* | 0300 | | | 1.17 | P: \$100,000. C: \$250,000. |
| VAL VERDE CO. | | | | | | | | | | | |
| Amistad Dam | 4 | | | E 60 | 0630 | E 80* | 0630 | | | 1.92 | Several trees broken off at ground. |
| Del Rio WSO | 4 | 29.36 | 0555 | ESE 60 | 0610 | ESE 89 | 0610 | | | 1.17 | P: \$1,000,000. |
| VICTORIA COUNTY | | | | | | | | | | | |
| Victoria WSO | 3 | 29.66 | 1600 | ENE 35 | 1445 | E 48 | 1443 | | | 0.08 | No damage. |
| ZAVALA COUNTY | | | | | | | | | | | |
| Crystal City | 4 | | | SSE 40* | 0200 | SSE 60* | 0200 | | | 2.34 | |
| La Pryor | 3-4 | | | NW 100* | 2230 | 110* | 0100 | | | 2.00 | P: Heavy |

*Estimated
#Above mean sea level
†Central Standard Time

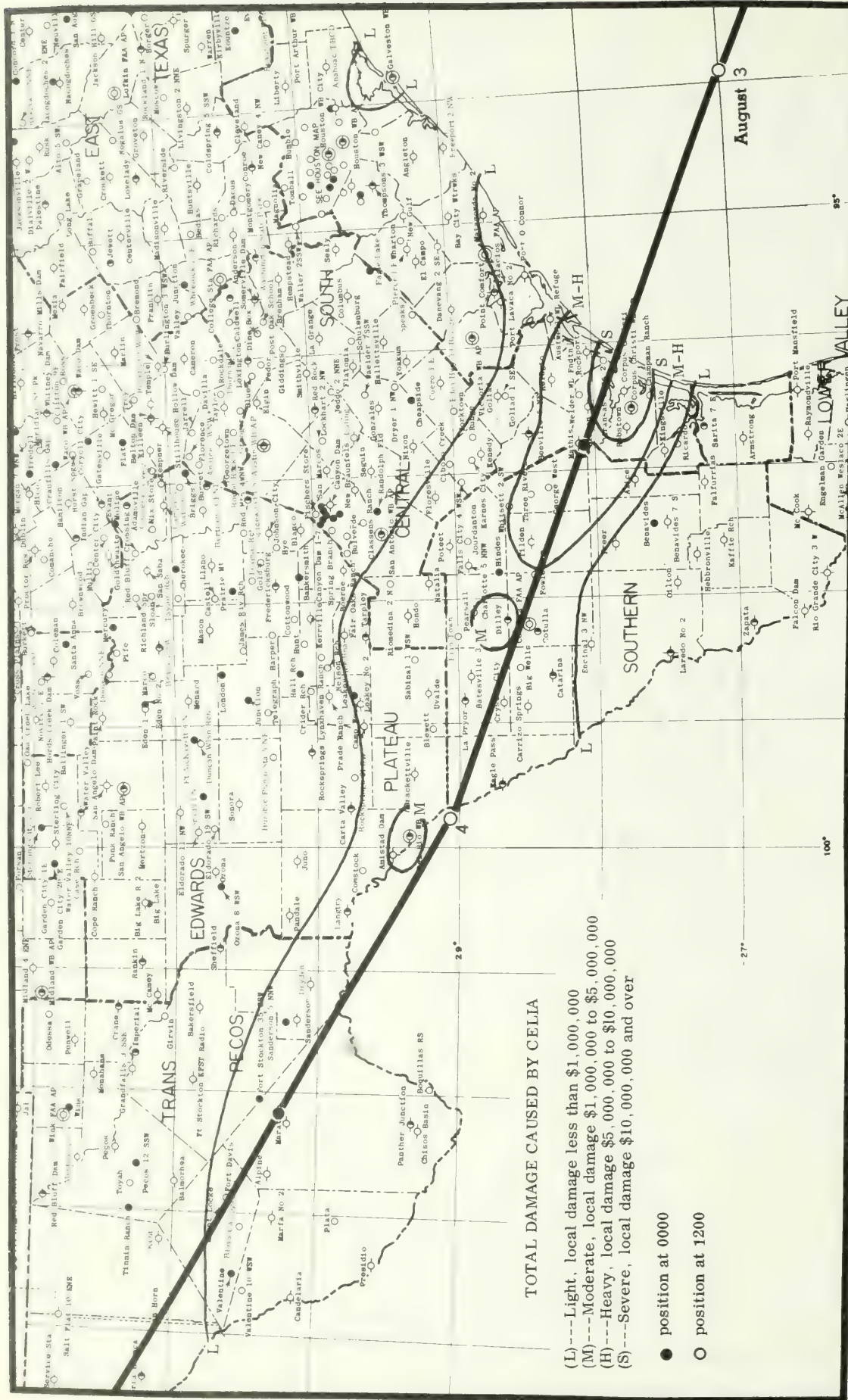


Figure 2. Celia's destructive path through Texas.

NORTH ATLANTIC TROPICAL CYCLONES - CONT'D

Eighty-five percent of the total property damage occurred in Corpus Christi. Nueces County bore 74 percent of the total storm damage (property and crops), while Nueces and San Patricio Counties combined accounted for 91 percent of the total storm damage in Texas. President Nixon declared 12 Texas counties disaster areas so that federal funds would be available for relief.

At Corpus Christi, the devastation was unlike that of most hurricanes, which center their damage around the edge of the water; almost every building in the city seemed to have been hit. An estimated 90 percent of the downtown buildings suffered major damage; some were destroyed. Few residences escaped some damage, and about one-third suffered major damage or were destroyed. Damage was also severe at Port Aransas, Aransas Pass, Gregory, Ingleside, Portland, and Taft. Portland was probably the worst hit of the small towns on the north side of Corpus Christi Bay, with about 90 percent of the town damaged. Port Aransas, which took the full brunt of hurricane Celia, suffered damage to at least 75 percent of its buildings. Most of the damage was due to wind. Fifteen shrimp trawlers sank in the harbor. The damage to mobile homes was fantastic all over the coastal area.

Crop damage ran from light on the fringe to total in the path of the hurricane. The hardest hit crops were corn, sorghum, and cotton.

The pattern of damage left behind by Celia was unique. Most of the destruction was caused by extreme gusts of wind. These explosive bursts of kinetic energy left behind long streaks of debris lines. Between these streaks of heavy damage there were large areas where the flimsiest of homes suffered little or no damage. Most of the destruction in Corpus Christi was caused by extreme westerly gusts, all occurring in the course of about 15 min. These bursts of wind were to the left of the center and to the rear of the center. To the right of the center, in Port Aransas and Aransas Pass the heaviest damage appeared to have been caused by southerly or southeasterly gusts following the passage of the center. The areas of heavy damage showed no evidence of rotary motion.

A detailed summary of hurricane Celia appears in NOAA's Climatological Data, National Summary, Vol. 21, No. 8, August 1970.

TROPICAL STORM DOROTHY, AUGUST 13-23

A tropical disturbance first seen by ATS-3 satellite moving off the North African coast on August 13 intensified and became a depression on the 17th. By 0000 on the 19th, tropical storm Dorothy had formed 13° N., 51° W. Dorothy followed a westerly course, and her minimum pressure of 996 mb. was recorded at 0600 on the 20th. At this time, her maximum sustained winds were around 60 kt. Dorothy roared over Martinique in the French West Indies on the afternoon of the 20th, dumping large amounts of rain on Martinique and Dominica. The SUNIMA north of the storm reported east-northeasterly winds to 75 kt. in a squall and 26-ft. swells at 1800 on the 20th near 15° N., 60° W. Fort du France, Martinique, measured more than 12 in. of rain in a 9-hr. period, following the passage of the tropical storm. There were 50 deaths on Martinique and one on Dominica, all caused by flooding and landslides. Over 700 people were left homeless, and there was extensive damage to property and crops on Martinique and Dominica. Dorothy rapidly degenerated after entering the Caribbean, becoming a tropical wave on

the 23d.

HURRICANE ELLA, SEPTEMBER 7-13

A sharp surface trough which developed on September 8 and stretched from San Andres Island to southern Florida began to show evidence of a low-level cyclonic circulation early on the 9th. By 1200 a depression had formed near Cape Gracias a Dios. After crossing the northeast corner of the Yucatan Peninsula and entering the Gulf of Mexico on the 10th, the depression rapidly intensified and was upgraded to tropical storm Ella at 1800. The steady deepening continued, and by 2200, Ella was a full-fledged hurricane with maximum winds of 75 kt. near the center near 23° N., 90° W. Ella churned across the Gulf at 18 kt. on the 11th but slowed down to 7 kt. on the 12th before making landfall. At 0600 on the 12th, she reached her minimum pressure of 967 mb.; at this time, her maximum winds were 96 kt. near the center.

Ella crossed the Mexican Gulf Coast shortly before 1200 on the 12th in the vicinity of La Pesca and El Chamal, about 150 mi. south of Brownsville, Tex. La Pesca reported gusts of up to 130 kt., and the Purification and San Fernando Rivers were in flood stage. Damage figures are scarce, and there were no reported casualties. Brownsville, Tex., recorded maximum winds of only 26 kt.; there was no significant damage in the United States. Ella lost strength rapidly after moving inland, and by the afternoon of the 13th, she had broken up northwest of Ciudad Victoria.

TROPICAL STORM FELICE, SEPTEMBER 11-17

A weak depression formed slightly north of Nassau on the 11th from a trough of low pressure at upper levels which had been over the western Bahamas for several days. This depression drifted westward, passing near Key West and spreading badly-needed rain across southern Florida on the 13th. After entering the Gulf of Mexico, the depression intensified rapidly and was upgraded to tropical storm Felice at 1:30 p.m. (c.s.t.) on the 14th. At 6 p.m. on the 14th, as Felice was churning toward the east Texas Gulf Coast, the HASTINGS reported a 30-kt. (35 m.p.h.) easterly wind near 27° N., 86° W. About 6 a.m. on the 15th, the poorly-organized tropical storm developed a new center near 28° N., 90° W.; the old center to the southwest disappeared shortly afterward. As Felice passed south of Louisiana, a reconnaissance plane found a minimum sea level pressure of 996 mb. (29.41 in.); at this time, the maximum winds were estimated at 60 kt. (69 m.p.h.).

Felice moved inland over High Island, a small community 26 mi. northeast of Galveston, at about 6 p.m. on the 15th. Peak wind gusts were estimated at 70 m.p.h. at Gilchrist, 5 mi. southwest of High Island, and a 43 m.p.h. sustained wind was recorded at Galveston. The highest tide was 3.9 ft. above mean sea level at Cameron, La. The storm damage was insignificant; there were no casualties and no serious property or crop damage. Rainfall totaling 6.25 in. flooded a number of streets in Galveston, and rains from 2-6 in. accompanied Felice into south-central Texas. Felice lost her identity north of Gainesville on the 17th. The remnants of Felice moved into Oklahoma, bringing some rainfall amounts in excess of 5 in. Justin, in north-central Texas, reported 6.32 in. of rain.

TROPICAL STORM GRETA, SEPTEMBER 15-OCTOBER 5

NORTH ATLANTIC TROPICAL CYCLONES - CONT'D

A tropical depression developed from an easterly wave about 180 mi. southeast of Nassau late on September 25. Moving in a northwesterly direction, the depression intensified rapidly and was upgraded to tropical storm Greta at 2300 on the 26th near 23° N., 77° W. At 0000 on the 27th, Greta recorded her minimum pressure of 1005 mb.; at this time, her maximum winds were about 45 kt. near the center. Greta brought squally weather to the southeast Florida coast on the 27th; maximum winds of 55 m.p.h. were recorded at Tavernier in the upper Florida Keys. The storm rapidly lost strength as she approached the lower keys. At 1700 on the 27th, she was reduced to a depression near 24° N., 81° W. Key West reported a maximum sustained wind of 26 m.p.h. with gusts to 33 m.p.h. as the remnants of Greta passed by. The low-pressure system then followed an anticyclonic tra-

jectory south of a 1023-mb. HIGH over southern Texas while maintaining a closed wind circulation. The remnants of the storm crossed the Mexican coast near Tampico late on October 4.

ACKNOWLEDGEMENTS

I wish to thank the personnel at the National Hurricane Center, Miami, Fla., for their help in preparing this article, and R. B. Orton, NOAA Climatologist for Texas, for much of the hurricane Celia data. If the reader desires additional synoptic details on these tropical cyclones, he should refer to the April 1971 issue of the Monthly Weather Review (Vol. 99, No. 4) containing the seasonal summary prepared by the National Hurricane Center.

METEOROLOGICAL STATISTICS AND ESTIMATED DAMAGES AND CASUALTIES, HURRICANE SEASON 1970

| Storm Name | Intensity | Date | Coast Lines Crossed | Highest Sustained Wind (kt) | Lowest Pressure (mb) | Damage (millions) | Deaths |
|------------|----------------|-----------------|---------------------|-----------------------------|----------------------|-------------------|---------------------------|
| 1. Alma | Hurricane | May 17-27 | Cuba, Florida | 70 | 993 | * | 7 Cuba |
| 2. Beckv | Tropical Storm | July 19-23 | Florida | 55 | 1003 | .5 | --- |
| 3. Celia | Hurricane | July 23-Aug. 5 | Cuba, Texas | 113 | 945 | 453.8 | 5 Cuba, 11 Texas |
| 4. Dorothy | Tropical Storm | Aug. 13-23 | Martinique | 60 | 996 | * | 50 Martinique, 1 Dominica |
| 5. Ella | Hurricane | Sept. 7-13 | Mexico | 80 | 967 | * | * |
| 6. Felice | Tropical Storm | Sept. 11-17 | Texas | 60 | 996 | --- | --- |
| 7. Greta | Tropical Storm | Sept. 15-Oct. 5 | --- | 48 | 1005 | --- | --- |

* Unknown

NORTH ATLANTIC TROPICAL CYCLONE CHART

ATLANTIC TROPICAL CYCLONES

ORIGINATING IN THE YEAR

1970

| NO | TYPE | NAME | DATES |
|----|------|---------|-----------------|
| 1 | (H) | ALMA | MAY 17 - 27 |
| 2 | (T) | BECKY | JULY 19 - 23 |
| 3 | (H) | CELIA | JULY 23 - AUG 5 |
| 4 | (T) | DOROTHY | AUG 13 - 23 |
| 5 | (H) | ELLA | SEPT 7 - 13 |
| 6 | (T) | FELICE | SEPT 11 - 17 |
| 7 | (T) | GRETA | SEPT 15 - OCT 5 |

(T) TROPICAL STORM (Winds 39 through 73 m p h)

(H) HURRICANE (Winds 74 m p h or higher)

..... Tropical Disturbance

..... Tropical Depression

..... Tropical Storm stage

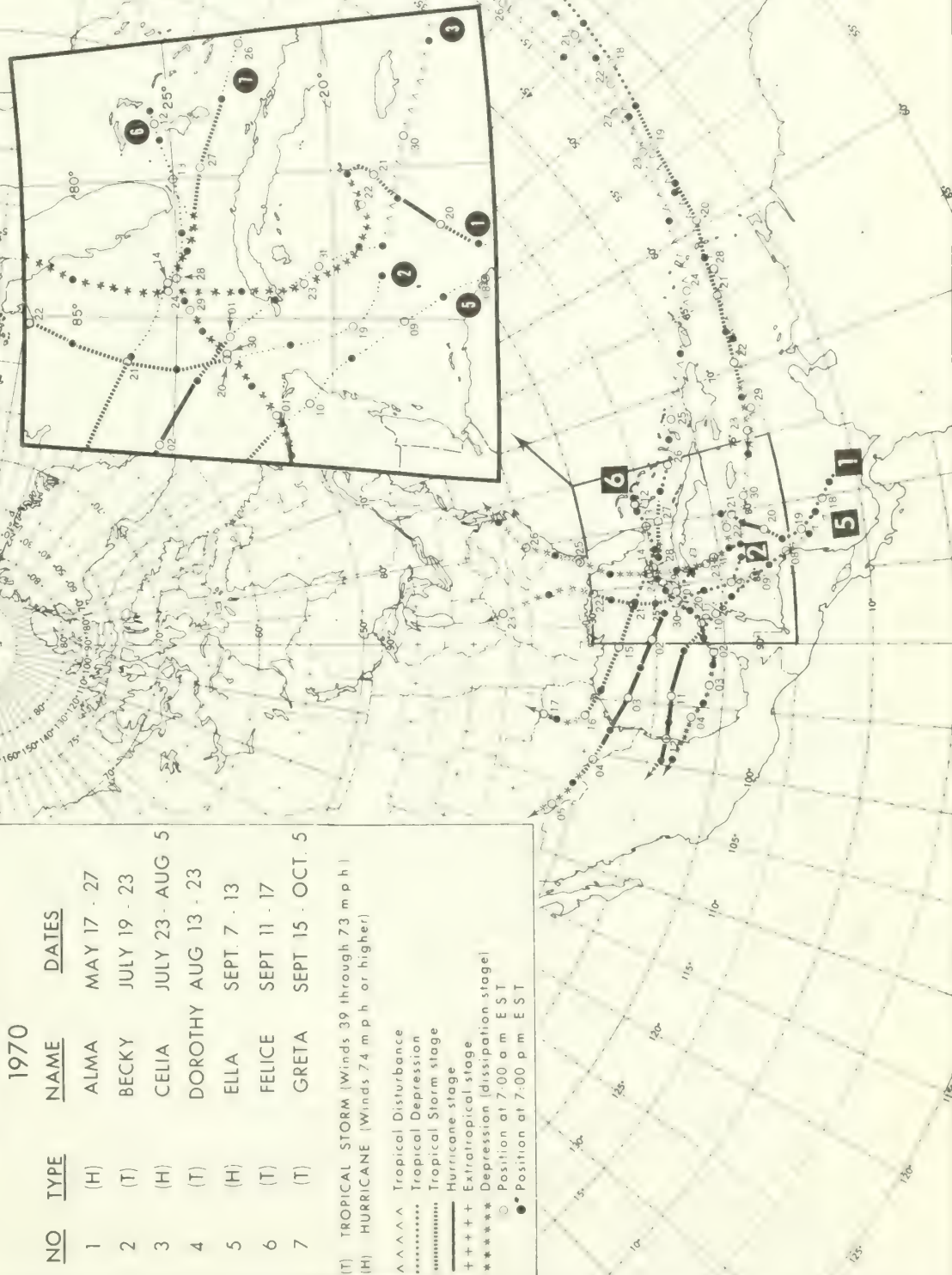
..... Hurricane stage

++++ Extratropical stage

***** Dissipation stage

○ Position at 7:00 a m E S T

● Position at 7:00 p m E S T



NORTH ATLANTIC TROPICAL CYCLONES FOR PAST YEARS

| TOTAL NUMBER OF TROPICAL CYCLONES, LOSS OF LIFE AND DAMAGE | | | | | | | | |
|--|-----------|---------------------|-------------------------|---------------------|-----------------|---------------|------------------------|---------------|
| Total Number Tropical Cyclones* | | | Total Number Hurricanes | | Loss of Life | | Damage by Categories** | |
| Year | All Areas | Reaching U.S. Coast | All Areas | Reaching U.S. Coast | Total All Areas | United States | Total All Areas | United States |
| 1888 | 10 | 7 | 8 | 6 | | | | |
| 1889 | 17 | 4 | 10 | 3 | | | | |
| 1890 | 10 | 6 | 5 | 3 | | | | |
| 1891 | 1 | 4 | 5 | 2 | | | | |
| 1892 | 1 | 0 | 1 | 0 | | | | |
| 1893 | 47 | 21 | 29 | 14 | | | | |
| 1894 | 11 | 4 | 8 | 2 | | | | |
| 1895 | 3 | 3 | 4 | 0 | | | | |
| 1896 | 12 | 3 | 10 | 6 | | | | |
| 1897 | 6 | 3 | 5 | 2 | | | | |
| 1898 | 6 | 4 | 2 | 1 | | | | |
| 1899 | 6 | 4 | 3 | 3 | | | | |
| 1900 | 7 | 3 | 3 | 1 | | 6,000 | | 7 |
| 1901 | 34 | 21 | 20 | 12 | | | | |
| 1902 | 10 | 6 | 3 | 2 | | 10 | | 6 |
| 1903 | 5 | 3 | 3 | 1 | | # | | # |
| 1904 | 2 | 2 | 2 | 2 | | 9 | | 6 |
| 1905 | 2 | 2 | 1 | 0 | | # | | # |
| 1906 | 54 | 16 | 17 | 7 | | | | |
| 1907 | 11 | 6 | 6 | 4 | | 285 | | 7 |
| 1908 | 10 | 3 | 0 | # | | # | | # |
| 1909 | 8 | 2 | 5 | 1 | | # | | # |
| 1910 | 10 | 7 | 4 | 3 | | 404 | | 7 |
| 1911 | 4 | 2 | 3 | 2 | | 13 | | 6 |
| 1912 | 4 | 2 | 3 | 2 | | | | |
| 1913 | 4 | 4 | 1 | 2 | | 17 | | 6 |
| 1914 | 1 | 1 | 0 | 0 | | 12 | | 6 |
| 1915 | 5 | 4 | 4 | 3 | | # | | # |
| 1916 | 26 | 14 | 14 | 9 | | 600 | | 8 |
| 1917 | 13 | 8 | 11 | 6 | | 107 | | 7 |
| 1918 | 3 | 1 | 2 | 1 | | 5 | | 5 |
| 1919 | 5 | 2 | 3 | 1 | | 34 | | # |
| 1920 | 4 | 3 | 4 | 2 | | 287 | | 7 |
| 1921 | 29 | 16 | 21 | 11 | | 2 | | 6 |
| 1922 | 6 | 2 | 4 | 2 | | 5 | | 6 |
| 1923 | 4 | 1 | 2 | 0 | | 0 | | # |
| 1924 | 7 | 4 | 3 | 2 | | 0 | | 4 |
| 1925 | 2 | 3 | 5 | 2 | | 2 | | 3 |
| 1926 | 27 | 12 | 15 | 7 | | 6 | | 3 |
| 1927 | 11 | 4 | 8 | 4 | | 269 | | 8 |
| 1928 | 7 | 1 | 4 | 0 | | 0 | | # |
| 1929 | 6 | 3 | 4 | 2 | | 1,836 | | 7 |
| 1930 | 3 | 2 | 3 | 2 | | 3 | | 6 |
| 1931 | 2 | 1 | 2 | 0 | | 0 | | 2 |
| 1932 | 29 | 11 | 21 | 8 | | 0 | | # |
| 1933 | 7 | 2 | 6 | 2 | | 0 | | # |
| 1934 | 11 | 5 | 8 | 5 | | 63 | | 7 |
| 1935 | 6 | 2 | 6 | 3 | | 17 | | 6 |
| 1936 | 58 | 21 | 28 | 12 | | 414 | | 7 |
| 1937 | 16 | 7 | 7 | 3 | | 9 | | 6 |
| 1938 | 4 | 4 | 3 | 0 | | 0 | | 4 |
| 1939 | 8 | 4 | 3 | 2 | | 600 | | 8 |
| 1940 | 5 | 3 | 3 | 1 | | 3 | | 3 |
| 1941 | 8 | 3 | 4 | 2 | | 51 | | # |
| 1942 | 46 | 21 | 20 | 8 | | | | |
| 1943 | 6 | 4 | 4 | 2 | | 10 | | 7 |
| 1944 | 10 | 3 | 4 | 4 | | 8 | 7 | 7 |
| 1945 | 10 | 4 | 5 | 1 | | 19 | | 7 |
| 1946 | 11 | 4 | 7 | 3 | 1,076 | 64 | 8 | 8 |
| 1947 | 11 | 5 | 8 | 3 | 29 | 7 | 8 | 8 |
| 1948 | 48 | 20 | 25 | 11 | | 5 | 7 | 7 |
| 1949 | 6 | 4 | 3 | 1 | | 72 | 8 | 8 |
| 1950 | 9 | 4 | 5 | 3 | | 24 | 7 | 7 |
| 1951 | 3 | 3 | 7 | 2 | | 4 | 8 | 8 |
| 1952 | 13 | 4 | 11 | 3 | | 27 | 7 | 7 |
| 1953 | 50 | 22 | 32 | 12 | | 19 | | |
| 1954 | 10 | 1 | 8 | 0 | 244 | 0 | 7 | 6 |
| 1955 | 7 | 2 | 6 | 1 | 16 | 3 | 6 | 6 |
| 1956 | 14 | 6 | 6 | 2 | 726 | 193 | 9 | 9 |
| 1957 | 11 | 4 | 8 | 3 | 1,518* | 218 | 9 | 9 |
| 1958 | 12 | 5 | 9 | 3 | | | | |
| 1959 | 34 | 18 | 37 | 9 | | | | |
| 1960 | 8 | 2 | 4 | 1 | 76 | 21 | 8 | 7 |
| 1961 | 8 | 5 | 3 | 1 | 475 | 395 | 8 | 8 |
| 1962 | 10 | 1 | 7 | 0 | 49 | 2 | 7 | 7 |
| 1963 | 11 | 7 | 7 | 3 | 57 | 24 | 7 | 7 |
| 1964 | 7 | 5 | 4 | 2 | 185 | 65 | 8 | 8 |
| 1965 | 44 | 20 | 25 | 7 | | | | |
| 1966 | 11 | 3 | 8 | 2 | 345 | 46 | 8 | 8 |
| 1967 | 5 | 1 | 3 | 0 | 4 | 4 | 6 | # |
| 1968 | 1 | 1 | 7 | 1 | 7,218* | 11 | 9 | 7 |
| 1969 | 12 | 6 | 4 | 2 | 266 | 49 | 9 | 9 |
| 1970 | 43 | 13 | 428 | 8 | 76 | 75 | 9 | # |
| 1971 | 11 | 2 | 7 | 2 | 1,040 | 54 | 8 | 7 |
| 1972 | 8 | 2 | 6 | 1 | 68 | 18 | 8 | 8 |
| 1973 | 7 | 3 | 4 | 2 | 11 | 9 | 7 | 7 |
| 1974 | 13 | 3 | 10 | 2 | 364 | 256 | 9 | 9 |
| 1975 | 7 | 4 | 3 | 1 | 74 | 11 | 9 | 8 |
| 1976 | 46 | 14 | 30 | 9 | | | | |
| Total | 688 | 301 | 409 | 185 | | | | |
| Median | 8 | 3 | 4 | 2 | | | | |

** The Environmental Data Service has for some time recognized that, without detailed expert appraisal of damage, all figures published are merely approximations to fact. Since errors in dollar estimates vary in proportion of the total damage, storms are placed in categories varying from 1 to 9 as follows:

- | | | |
|--------------------|----------------------------|--------------------------------------|
| 1 Less than \$50 | 4 \$5,000 to \$50,000 | 7 \$5,000,000 to \$50,000,000 |
| 2 \$50 to \$500 | 5 \$50,000 to \$500,000 | 8 \$50,000,000 to \$500,000,000 |
| 3 \$500 to \$5,000 | 6 \$500,000 to \$5,000,000 | 9 \$5,000,000,000 to \$5,000,000,000 |

Blank spaces indicate no figures available

* Including hurricanes

Not reported in literature, believed minor.

+ Additional deaths for which figures are not available.

NORTH ATLANTIC TROPICAL CYCLONES FOR PAST YEARS—CONT'D

| Frequency of Tropical Cyclones (including Hurricanes)
by Months and Years | | | | | | | | | | | Frequency of Tropical Cyclones Reaching Hurricane
Intensity by Months and Years | | | | | | | | | | | | |
|--|-----------|-----|------|------|------|-------|------|------|------|-------|--|----------|--------|------|------|------|-------|------|------|------|-------|---|-----|
| | | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. | Total | | | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. | Total | | |
| 1886 | | | 3 | 1 | 2 | 2 | 2 | | | 10 | 1886 | | | 2 | 1 | 2 | 2 | 1 | | | 8 | | |
| 1887 | | 1 | | 2 | 2 | 1 | 6 | 1 | 2 | 17 | 1887 | | | | | 2 | 3 | 2 | 1 | 1 | 10 | | |
| 1888 | | | 1 | 1 | 2 | 2 | 1 | | | 10 | 1888 | | | | | 2 | 3 | | | | 8 | | |
| 1889 | | 1 | 1 | 1 | 1 | | 1 | 3 | | 9 | 1889 | | | 1 | | 1 | 3 | 1 | 1 | | 7 | | |
| 1890 | | | | | 1 | | | | | 1 | 1890 | | | | | 1 | | | | | 1 | | |
| 1891 | | | | 1 | 2 | 3 | 4 | 1 | | 11 | 1891 | | | | 1 | 2 | 3 | 2 | | | 8 | | |
| 1892 | | | 1 | | 1 | 4 | 3 | | | 9 | 1892 | | | | | 1 | 2 | 1 | | | 4 | | |
| 1893 | | | 1 | 1 | 5 | 3 | 1 | 1 | | 12 | 1893 | | | 1 | 1 | 5 | 3 | | | | 19 | | |
| 1894 | | | | | 2 | 1 | 3 | | | 6 | 1894 | | | | | 1 | | 3 | | | 5 | | |
| 1895 | | | | | 2 | 1 | 3 | | | 6 | 1895 | | | | | 1 | | 1 | | | 2 | | |
| 1896 | | | | 1 | 1 | 2 | 2 | | | 6 | 1896 | | | | 1 | 1 | 2 | 2 | | | 6 | | |
| 1897 | | | | | 1 | 2 | 2 | | | 5 | 1897 | | | | | 1 | 1 | | | | 2 | | |
| 1898 | | | | | 2 | 5 | 2 | | | 9 | 1898 | | | | | 1 | 2 | | | | 4 | | |
| 1899 | | | | 1 | 2 | 1 | 2 | | | 6 | 1899 | | | | 1 | 2 | 1 | 1 | | | 5 | | |
| 1900 | | | | | 1 | 3 | 3 | | | 7 | 1900 | | | | | 1 | 2 | | | | 3 | | |
| 1901 | | | 1 | 2 | 2 | 3 | 2 | | | 10 | 1901 | | | | 1 | 2 | | | | | 3 | | |
| 1902 | | | 2 | | | 1 | 1 | 1 | | 5 | 1902 | | | 1 | | | 1 | 1 | | | 3 | | |
| 1903 | | | | 1 | 1 | 4 | 2 | | 1 | 9 | 1903 | | | | 1 | 1 | 3 | 2 | 1 | | 8 | | |
| 1904 | | | 1 | | | 1 | 3 | | | 5 | 1904 | | | | | | 1 | | | | 2 | | |
| 1905 | | | | | | 3 | 2 | | | 5 | 1905 | | | | | | 1 | 1 | | | 1 | | |
| 1906 | | | 2 | | 1 | 3 | 4 | 1 | | 11 | 1906 | | | 1 | | 1 | 2 | 2 | | | 6 | | |
| 1907 | | | 1 | | | 2 | 1 | | | 4 | 1907 | | | | | | | | | | 0 | | |
| 1908 | (Mar.) 1 | | | 1 | 1 | 3 | 2 | | | 8 | 1908 | (Mar.) 1 | | | | | 2 | 1 | | | 5 | | |
| 1909 | | | 2 | 2 | 2 | 2 | 1 | 1 | | 10 | 1909 | | | | 1 | 1 | 2 | 1 | 1 | | 4 | | |
| 1910 | | | | | 1 | 2 | 1 | | | 4 | 1910 | | | | | | 2 | 1 | | | 3 | | |
| 1911 | | | | | 2 | 1 | 1 | | | 4 | 1911 | | | | | 2 | 1 | | | | 3 | | |
| 1912 | | | 1 | 1 | 1 | 1 | 2 | 1 | | 6 | 1912 | | | | | 1 | 1 | 2 | 1 | | 4 | | |
| 1913 | | | 1 | | 1 | 1 | 1 | | | 4 | 1913 | | | 1 | | 1 | 1 | | | | 3 | | |
| 1914 | | | | | | 1 | | | | 1 | 1914 | | | | | | | | | | 0 | | |
| 1915 | | | | 1 | 2 | 2 | | | | 5 | 1915 | | | | | 2 | 2 | | | | 4 | | |
| 1916 | | | 1 | 2 | 3 | 4 | 3 | 1 | | 14 | 1916 | | | 1 | 2 | 3 | 2 | 2 | 1 | | 11 | | |
| 1917 | | | | | 2 | | | | | 3 | 1917 | | | | | 1 | 1 | | | | 2 | | |
| 1918 | | | | | 3 | 2 | | | | 5 | 1918 | | | | | 2 | 1 | | | | 3 | | |
| 1919 | | | | 1 | | 1 | | 1 | | 3 | 1919 | | | | | | 1 | 1 | | | 1 | | |
| 1920 | | | | | | 4 | | | | 4 | 1920 | | | | | | 4 | | | | 4 | | |
| 1921 | | | 1 | | | 3 | 2 | | | 6 | 1921 | | | 1 | | | 2 | 1 | | | 4 | | |
| 1922 | | | 1 | | | 1 | 2 | | | 4 | 1922 | | | | | | 2 | | | | 2 | | |
| 1923 | | | | | 1 | 1 | 5 | | | 7 | 1923 | | | | | | 1 | 1 | | | 3 | | |
| 1924 | | | 1 | | 2 | 2 | 2 | 1 | | 8 | 1924 | | | | | 2 | 1 | 1 | | 1 | 5 | | |
| 1925 | | | | | | 1 | | 1 | | 2 | 1925 | | | | | | | | | 1 | 1 | | |
| 1926 | | | | 1 | 2 | 5 | 2 | 1 | | 11 | 1926 | | | | 1 | 2 | 4 | 1 | | | 8 | | |
| 1927 | | | | | 1 | 3 | 3 | | 1 | 7 | 1927 | | | | | 1 | 3 | | | | 4 | | |
| 1928 | | | | | 2 | 3 | 1 | | | 6 | 1928 | | | | | 2 | 1 | 1 | | | 4 | | |
| 1929 | | | 1 | | | 1 | 1 | | | 3 | 1929 | | | 1 | | | 1 | 1 | | | 3 | | |
| 1930 | | | | | 2 | | | | | 2 | 1930 | | | | | 2 | | | | | 2 | | |
| 1931 | | | 1 | 1 | 2 | 3 | 1 | 1 | | 9 | 1931 | | | | | | 2 | | | | 2 | | |
| 1932 | | 1 | | | 3 | 3 | 3 | | | 11 | 1932 | | | | | 3 | 1 | | 1 | | 6 | | |
| 1933 | | 1 | 1 | 3 | 7 | 5 | 3 | 1 | | 21 | 1933 | | | | 1 | 3 | 3 | 1 | | 1 | 9 | | |
| 1934 | | 1 | 1 | 1 | 2 | 2 | 3 | 1 | | 11 | 1934 | | | 1 | 1 | 1 | 1 | | 1 | | 6 | | |
| 1935 | | | | | 3 | 1 | 2 | | | 6 | 1935 | | | | | 2 | 1 | 2 | | | 5 | | |
| 1936 | | | 3 | 2 | 6 | 4 | 1 | | | 16 | 1936 | | | 1 | 1 | 3 | 2 | | | | 7 | | |
| 1937 | | | 1 | | 2 | 6 | | | | 9 | 1937 | | | | | | | | | | 3 | | |
| 1938 | | | | | 3 | 1 | 3 | 1 | | 8 | 1938 | | | | | 2 | 1 | | | | 3 | | |
| 1939 | | | 1 | | 1 | 1 | 2 | | | 5 | 1939 | | | | | 1 | | 2 | | | 3 | | |
| 1940 | | 1 | | | 3 | 2 | 2 | | | 8 | 1940 | | | | | | 5 | 1 | | | 4 | | |
| 1941 | | | | | | 4 | 2 | | | 6 | 1941 | | | | | | | 3 | 1 | | 4 | | |
| 1942 | | | | | 3 | 3 | 3 | 1 | | 10 | 1942 | | | | | | | | | | 4 | | |
| 1943 | | | | 1 | 2 | 4 | 3 | | | 10 | 1943 | | | | | 3 | | | 1 | | 5 | | |
| 1944 | | | | 3 | 2 | 4 | 2 | | | 11 | 1944 | | | | 1 | 1 | 2 | 1 | | | 5 | | |
| 1945 | | | 1 | 1 | 4 | 3 | 2 | | | 11 | 1945 | | | 1 | | 1 | 1 | 2 | | | 5 | | |
| 1946 | | | 1 | 1 | 1 | 1 | 2 | | | 6 | 1946 | | | | 1 | | 1 | 1 | | | 3 | | |
| 1947 | | | | | 2 | 3 | 3 | | | 9 | 1947 | | | | | 2 | | 2 | | | 5 | | |
| 1948 | | | | 1 | 2 | 3 | 1 | 1 | | 9 | 1948 | | | | | | 1 | 3 | 1 | | 6 | | |
| 1949 | | | | | 3 | 7 | 2 | | | 13 | 1949 | | | | | 2 | 4 | 1 | 1 | 1 | 7 | | |
| 1950 | | | | | 4 | 3 | 6 | | | 13 | 1950 | | | | | 4 | 3 | 4 | | | 11 | | |
| 1951 | | 1 | | | 3 | 4 | 2 | | | 10 | 1951 | | 1 | | | 2 | 3 | 2 | | | 8 | | |
| 1952 | (Feb.) 1 | | | | 2 | 2 | 2 | | | 7 | 1952 | | | | | 2 | 2 | 2 | | | 6 | | |
| 1953 | | 1 | | | 3 | 4 | 4 | 1 | 1 | 14 | 1953 | | | | | 2 | 3 | 1 | | | 6 | | |
| 1954 | | | 1 | 1 | 2 | 4 | 1 | 1 | 1 | 11 | 1954 | | | 1 | | 2 | 3 | 1 | | | 8 | | |
| 1955 | | | | 1 | 4 | 5 | 2 | | | 12 | 1955 | | | | | 3 | 5 | 1 | | 1 | 9 | | |
| 1956 | | | 1 | 1 | 1 | 4 | 1 | | | 8 | 1956 | | | | 1 | 1 | 1 | 1 | | | 4 | | |
| 1957 | | | 2 | | 1 | 4 | 1 | | | 8 | 1957 | | | 1 | | | 2 | | | | 3 | | |
| 1958 | | | 1 | | 4 | 4 | 1 | | | 10 | 1958 | | | | | 3 | 3 | 1 | | | 7 | | |
| 1959 | | 1 | 2 | 2 | 1 | 3 | 2 | | | 11 | 1959 | | | 1 | 2 | | 3 | 1 | | | 7 | | |
| 1960 | | | 1 | 2 | 1 | 3 | | | | 7 | 1960 | | | | 1 | 1 | 2 | | | | 4 | | |
| 1961 | | | | 1 | | 6 | 2 | 2 | | 11 | 1961 | | | | 1 | | 5 | 1 | 1 | | 8 | | |
| 1962 | | | | | 2 | 2 | 1 | | | 5 | 1962 | | | | | 1 | 1 | | | | 3 | | |
| 1963 | | | | 1 | 1 | 5 | 2 | | | 9 | 1963 | | | | 1 | 1 | 4 | 1 | | | 7 | | |
| 1964 | | | 1 | 1 | 4 | 4 | 1 | 1 | | 12 | 1964 | | | | | 2 | 3 | 1 | | | 6 | | |
| 1965 | | | 1 | | 2 | 2 | 1 | | | 6 | 1965 | | | | | 2 | 1 | 1 | | | 4 | | |
| 1966 | | | 1 | 4 | 1 | 4 | | 1 | | 11 | 1966 | | | 1 | 3 | 1 | 1 | | 1 | | 7 | | |
| 1967 | | | | | 1 | 4 | 3 | | | 8 | 1967 | | | | | 1 | 3 | 2 | | | 6 | | |
| 1968 | | | 3 | | 1 | 2 | 1 | | | 7 | 1968 | | | 2 | | 1 | | 1 | | | 4 | | |
| 1969 | | | | 1 | 6 | 2 | 3 | 1 | | 13 | 1969 | | | | | 5 | 2 | 2 | 1 | | 10 | | |
| 1970 | | 1 | | 2 | 1 | 3 | | | | 7 | 1970 | | 1 | | 1 | | 1 | | | | 3 | | |
| Totals | Mar. Feb. | 1 | 1 | 11 | 46 | 53 | 154 | 233 | 155 | 31 | 4 | 689 | Totals | 1 | 3 | 26 | 36 | 114 | 148 | 76 | 14 | 2 | 409 |

EASTERN NORTH PACIFIC TROPICAL CYCLONES, 1970

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The season for the San Francisco area of responsibility began on May 30 with the appearance of a disturbance that developed into hurricane Adele; the season ended November 8 as the cloud spiral generated by tropical storm Selma evaporated south of Baja California. Hurricane intensity was ascribed in 34 operational advisories, and tropical storm intensity in 202. There were 118 bulletins on depressions. Scheduled release times for advisories and bulletins were 0300, 0900, 1500, and 2100 GMT. They had wide distribution, as in previous years, on CW marine radio stations and through a regular voice broadcast that was recorded by the forecaster for dissemination over marine radio station KML.

The 1970 season brought four hurricanes--Adele, Francesca, Lorraine, and Patricia. Eighteen other cyclones were treated as storms or depressions. Fourteen of the eighteen were named as tropical storms. Postseason study led to the conclusion that Dolores was only a short-lived depression, since no cloud spiral was left upon dissipation within less than 24 hr. after discovery. The name Ione was applied to two discrete cyclone centers about 300 mi. apart. The first named center contained winds reported up to 48 kt. by the KAMIKAWA MARU, but it was quite short-lived. This was due perhaps to the other stronger center developing within close proximity. Two of the three cyclones treated as depressions may have had sustained winds in the range of weak tropical storms, depending on arbitrary wind estimates from satellite pictures. For statistical purposes, the record showed that in addition to the four hurricanes, there were 14 cyclones with maximum intensity in the tropical storm range (not counting Dolores, but counting the two called Ione) and four of no more than depression intensity (including Dolores). The seasonal distribution of tropical cyclones is shown in table 1.

Using the count of 18, this gives an average of 15.4 (table 2) tropical storms and hurricanes, having their origins east of 140°W., per year since full operational satellite coverage began in 1966. The average number of hurricanes included in the 15.4 figure is 5.4 (table 3).

Satellite pictures provided most of the information on developing disturbances. Aerial reconnaissance by the U.S. Navy and the U.S. Air Force usually provided a fix once daily on the location, intensity, and area covered by storm winds after the cyclone had been recognized for at least 24 hr. Ship reports provided much useful information; they furnished occasionally the decisive bit as to storm location and intensity.

Special ship reports were actively sought when there was a suspicion of storm development. The requests elicited numerous reports when the area of suspicion was near the heavily traveled shipping lanes, but very few, even there, during the hours of darkness when other information was nil. There were a few ship reports telling of storms encountered without warning or with warning incorrectly stating location or intensity. These reports were an important part of the efforts to make current advisories reflect an accurate and precise description of storm location, size, intensity, and movement.

Pictures were received usually at San Francisco directly through satellite Automatic Picture Transmission between about 1600 and 1800, and again between about 2000 and 2300, with the readout by the

forecaster upon reception. Strong support was provided by the National Environmental Satellite Service, using telephone and teletype communication as needed. When definitive information from other sources was available, picture interpretation was generally in agreement, but there were exceptions, especially involving center location of loosely organized storms and intensity of weakening systems. When reported data were in apparent conflict with picture interpretation, a re-study of the picture usually led to full acceptance of the directly observed information.

A total of 54 reconnaissance missions were flown. The aircraft were well instrumented and were manned by highly trained, experienced hurricane reconnaissance specialists. Air Force missions were based at McClellan AFB, Sacramento, Calif. Those of the Navy flew from the Pacific Missile Range, Point Mugu, Calif. The Air Force used WC-135 aircraft for 29 missions and, late in the season, flew WC-130's on three. The Navy used WC-121's for 22 missions. The WC-135 aircraft had long range, making one hurricane fix in the deep tropics at 11.8°N., 101.3°W. The Navy WC-121 aircraft were slower and had shorter range, but they had a much better tolerance for turbulence than the WC-135's. Their tolerance for turbulence made low-level hurricane penetration feasible. Most of the Navy flights provided observation of the storm winds and seas from 1500 ft. with some from as low as 500 ft.

No report of casualties due directly to hurricane winds or seas reached San Francisco. Direct damage appears to have been light. Weak tropical storm Eileen moved onto Mexico south of Mazatlan with maximum sustained winds of about 40 kt. Tropical storm Orlene apparently crossed the coastline of the Gulf of Tehuantepec with somewhat stronger winds, as indicated by the daytime satellite picture continuity.

The casualties and damage in the Arizona flood disaster of September 4-6 (22 deaths, over a million dollars damage) came about through a combination of circumstances of which tropical storm Norma was an essential part. While more than 600 mi. to the south, Norma helped to create the southerly winds and unstable air that fed extraordinary amounts of moisture into the middle latitude type storm directly responsible for the rains.

A tropical depression off the coast of Mexico from September 24 to 26 was generated by an activation and northward push of the intertropical trough that also generated heavy rains with attendant widespread flood and mudslide damage in Mexico.

Tropical storm Maggie dumped torrential rains of up to 15 in. on the island of Hawaii while the storm center was passing 80 mi. to the south on August 25.

The summaries of individual tropical cyclones follow. Cyclone highlights are summarized in table 4, and the tracks are shown in the accompanying charts.

HURRICANE ADELE, MAY 30-JUNE 7

A report from the CHEVRON BRUSSELS telling of east-northeast winds of about 60 kt. with high seas at 11°N., 102°W., on May 31, brought attention to the rapid intensification of a disturbance that had been seen on satellite pictures the preceding 2 days.

The first storm of the season, Adele, then moved westward and intensified to a 75-kt. hurricane. When located by U.S. Air Force reconnaissance at 11° 41'N.,

EASTERN NORTH PACIFIC TROPICAL CYCLONES, CONT'D

YEAR 1970

118° 34'W., at 1735 on June 3, the maximum winds were 65 kt., but concurrent satellite pictures indicated a weaker hurricane than did the pictures of the preceding 2 days.

The weakening trend continued during the next 3 days while the movement of Adele averaged about 9 kt. toward the west-northwest. A rapid dissipation of the storm was evident late on June 6 near 15°N., 131°W.

TROPICAL STORM BLANCA, JUNE 9-12

Blanca developed rapidly on June 9 near 13°N., 117°W. She moved northwestward at 5 kt. Maximum winds in the storm were 50 kt. on June 10. They decreased to 35 kt. on June 11, as determined by Navy reconnaissance. Blanca continued to move northwestward at 5 kt.; she dissipated on June 12 near 17°N., 120°W.

TROPICAL STORM CONNIE, JUNE 17-21

An area of showery weather near 10°N., 100°W., on June 13 developed gradually into a tropical depression as it moved westward. Tropical storm Connie, with winds up to 40 kt., had evolved from the depression when it was pictured by satellite near 12°N., 109°W., at 1700 on June 17. Connie moved northwestward at 6 kt. for 2 days while carrying maximum winds of 40-50 kt. Then she began to weaken. Dissipation was completed on June 21 less than 100 mi. southeast of Clarion Island.

TROPICAL STORM EILEEN, JUNE 26-29

A weak low-pressure center that developed 100 mi. south of Acapulco, Mexico, on June 26 moved west-northwestward at 6 kt. parallel to the coast and developed into tropical storm Eileen the next day. Eileen then turned toward the north-northwest at 15 kt., carrying maximum winds near 40 kt., and passed about 50 mi. off Cape Corrientes, Mexico, at 1800 on June 28. Eileen turned northeastward late on the 28th, passed inland 30 or 40 mi. southeast of Mazatlan, and then dissipated rapidly on land. Mazatlan Airport had only 15 kt. of northeast wind as Eileen was moving inland.

HURRICANE FRANCESCA, JULY 1-10

The ESSA 8 satellite discovered an area of showers with the beginnings of a low-pressure circulation near 8°N., 87°W., at 1530 on July 1. The disturbance intensified rapidly and became a tropical storm the next day and a full hurricane in less than 48 hr. She followed a west-northwesterly track, and pounded the ADABELLE LYKES with 85-kt. easterly winds and very high seas near 11°N., 95°W., at 1800 on July 3. Francesca maintained hurricane intensity for approximately 2 days while following her west-northwesterly course. She began to weaken slowly on the 4th and was down to tropical storm intensity about the time she crossed the 105th meridian near 12.5°N., on the 5th. Francesca continued west-northwestward as a weakening tropical storm for 3 more days before turning westward as a dissipating depression near 16°N., 119°W., on the 8th.

TROPICAL STORM GRETCHEN, JULY 14-21

Gretchen developed rapidly from a depression centered near 15°N., 108°W., at 1200 on July 14, to a 45-kt.

tropical storm that same day. She moved west-northwestward at 12 kt. at first, but then turned toward the west-southwest and slowed down on the 15th. The west-southwesterly course persisted for only 24 hr. before she turned back toward the west-northwest with her original 45-kt. intensity. The storm center moved at an average speed of only 3 kt. for 3 days; it then turned toward the west-southwest near 19°N., 120°W., on the 20th, and dissipated the following day.

TROPICAL STORM HELGA, JULY 16-20

Tropical storm Helga evolved from a tropical depression first detected about 250 mi. west of Acapulco on July 16. The depression intensified as it traveled northwestward at 8 kt. Helga reached tropical storm strength, with maximum winds of 35 kt. near her center, near 19°N., 106°W., at about 1200 on July 17. She intensified further and had 50-kt winds on approaching southern Baja California from 200 mi. to the southeast on the 18th. The storm then began to weaken and dissipated during the 19th and 20th while stalled less than 100 mi. south of Cape San Lucas.

TROPICAL STORM IONE NUMBER 1, JULY 24-25

A tropical depression was discovered near 14°N., 102°W., at 1800 on July 22, but it became disorganized as seen on satellite pictures the next day. Later events indicate it was splitting into two tropical cyclones, both of which were to attain tropical storm strength. The tropical storm first called Ione was encountered by the KANIKAWA MARU at 2100 on July 24. That ship was buffeted by 48-kt. southeasterly winds and 15-ft. seas near 21°N., 107°W. The storm washed out the next day.

TROPICAL STORM IONE NUMBER 2, JULY 22-26

A larger, more active, and intensifying tropical cyclone was spotted by satellite at 2235 on the 24th near 17°N., 111°W. When the expanding circulation of this storm center reached the area of Ione No. 1, winds in the latter area decreased and Ione No. 1 disappeared abruptly. The second storm, also called Ione, moved north-northwestward and began to weaken. Her top winds were apparently reached about the time of the picture on the 24th which indicated speeds of 55 or 60 kt. Maximum winds on the 25th were 45 kt. near 20°N., 112°W. These winds decreased to 25 kt. the next day as storm activity faded rapidly near 16°N., 113°W.

TROPICAL STORM JOYCE, JULY 29-AUGUST 4

Tropical storm Joyce was first detected by the Israeli refrigerated fruit carrier MANGOCORE, which encountered a 35-kt. east-southeasterly wind near 18°N., 106°W., at 1800 on the 29th. The storm intensified and moved west-northwestward for 2 days. Joyce passed near the Revilla Gigedo Islands on the 31st when her maximum winds were 50 kt. The storm weakened to a tropical depression with maximum winds of 30 kt. around a center near 20°N., 116°W., at 2100 on August 1. The dissipation of the revolving wind system was completed by the evening of the 4th.

TROPICAL STORM KRISTEN, AUGUST 4-8

Tropical storm Kristen organized from a depression within an area of showers near 16°N., 103°W., at

EASTERN NORTH PACIFIC TROPICAL CYCLONES, CONT'D

YEAR 1970

1800 on August 5. The new storm, which had maximum winds of 40 kt. near the center, moved west-northwestward for 2 days with a speed of 15 kt. at first; it slowed to 10 kt. on the 6th. The strength of the storm continued about the same through the 7th. After that, it weakened rapidly. Kristen dissipated swiftly on the 8th while 150-200 mi. west of Magdalena Bay, Baja California, Mexico.

HURRICANE LORRAINE, AUGUST 15-27

The development of the depression which became hurricane Lorraine was first indicated when the COLUMBIA MARINER encountered an east-northeasterly wind of 15 kt. and a falling barometer at 1800 on August 15 about 300 mi. south of Tehuantepec, Mexico. The weather system moved toward the west-northwest and slowly intensified into a tropical storm near 14°N., 105°W., 2 days later. The strengthening trend continued, and Lorraine became a hurricane near 14°N., 117°W., at 1800 on August 20. Between 2000 and 2100 on the 19th, the MARGARET LYKES passed through the eye while on a southeasterly course, reporting 50-kt. southwesterly winds 3 hr. later. The barogram depicting the rapid fall and rise of pressure as this ship passed through Lorraine appears on page 32 of the January 1971 issue of the Mariners Weather Log.

The hurricane continued to intensify for another 2 days while moving west-northwestward at 10 kt. By late on the 22d, Lorraine was packing winds of near 100 kt. near her center. Lorraine began to weaken early on the 23d; she was a 60-kt. tropical storm near 17°N., 129°W., by 2100 that day. Only a depression with 30-kt. winds was left as the remains of the storm crossed the 140th meridian at 20°N. on the 26th; the depression dissipated the next day.

TROPICAL STORM MAGGIE, AUGUST 20-28

A flat low-pressure system appeared in an area of showers to the west-southwest of hurricane Lorraine around 1800 on the 20th. The French refrigerated cargo carrier BIAFRA was buffeted by 38-kt. southerly winds, with a barometer reading 1006 mb., near 13°N., 132°W., by the soon to be named tropical storm Maggie at 0000 on the 21st. Maggie intensified slowly while moving west-northwestward at 9 kt.; her maximum winds were estimated at 55 kt. at 0300 on the 25th. Maggie passed about 80 mi. south of the island of Hawaii on the 25th, dumping torrential rains over the big island. Rainfall amounts ranged from 10 to 15 in. on the windward side of the island from the Hamuka coast to Puna and from 1 to 7 in. on the leeward side. Maggie was downgraded to a tropical depression at 0900 on the 26th near 18°N., 157°W.

TROPICAL STORM NORMA, AUGUST 30-SEPTEMBER 5

The beginnings of tropical storm Norma were first seen when a low-pressure circulation developed 100 mi. southwest of Acapulco on August 30. There was a rapid strengthening to tropical storm intensity. Early the next day, the AMERICAN CORSAIR was lashed by 45-kt. winds near 18°N., 107°W. Norma moved north-westward at 8 kt. for the next 3 days while maintaining her initial intensity. The PORTMAR was hit with 35-kt. westerly winds and 12-ft. swells near 20°N., 114°W., at 0000 on September 4. Norma lost strength later on the 4th and dissipated completely on the 5th while ap-

proaching the Baja California peninsula near 27°N., 113°W.

Norma was an essential part of the meteorological situation leading to the Arizona flood disaster of September 4-6. She generated 1) a highly moist, unstable air mass over northwestern Mexico, and 2) the southerly winds that fed the moisture to an extratropical storm, directly responsible for the precipitation.

TROPICAL STORM ORLENE, SEPTEMBER 6-8

Tropical storm Orlene was discovered by the EPI-MELIA on September 7. The 2100 ship report from 14° 23'N., 95° 37'W., said: "Observed tropical storm with northeast winds force 8-9, 995 mb. very rough sea." Ships in the area earlier had reported high swells from the direction of the developing storm. A close study of the concurrent satellite picture was necessary to discern the small storm embedded in a cloud mass hundreds of miles across. Satellite pictures the next day indicated that Orlene had moved north-eastward onto Mexico, east of Salina Cruz.

HURRICANE PATRICIA, OCTOBER 3-11

The disturbance that became hurricane Patricia was first seen on satellite pictures as an unusual amount of shower activity in the intertropical convergence south of the Gulf of Tehuantepec on October 2. Cyclonic organization had begun when pictures were made the next day. This conclusion was supported by a report of northeasterly 25-kt. winds by the MAYAGUEZ 100 mi. south of Salina Cruz, Mexico, at 0000 on October 4. Intensification to a 90-kt. hurricane was then observed on the pictures of October 5 and 6, while Patricia moved first toward the west at 12 kt. and then toward the west-northwest at 15 kt.

Daily fixes on the center location and maximum winds were provided by the hurricane reconnaissance of the U.S. Air Force and U.S. Navy beginning October 6 when the Air Force found 90-kt. winds around a center located about 400 mi. southwest of Manzanillo.

The hurricane continued on a 280°-290° track, slowing to 12 kt. on the 7th, with winds continuing at more than 90 kt. through October 9. It turned abruptly north-westward late on the 9th for about 6 hr. and then turned back toward the west and weakened rapidly. Maximum winds had decreased to 40 kt. when the center was fixed by Navy low-altitude weather reconnaissance at 18° 41' N., 128° 36' W., at 1830 on October 10. Dissipation was complete for practical purposes 24 hr. later.

No ship reported winds as strong as gale force from Patricia, even though she was an intense hurricane for 4 days.

TROPICAL STORM ROSALIE, OCTOBER 20-23

Rosalie was a minor tropical storm which first came to attention through a 1300 observation from the ILENA near 15.3°N., 115.0°W., on October 21, which reported a sudden pressure fall from 1013 to 1007 mb. with winds increasing to 40 kt. from the east and seas running 15 to 18 ft. Heavy rain was also reported. The storm apparently had developed from rain squalls pictured by satellite near 13°N., 113°W., the previous afternoon.

The weak storm moved north-northwestward at 7-10 kt. and then turned westward and began to dissipate before daybreak on October 23. On the morning of

EASTERN NORTH PACIFIC TROPICAL CYCLONES, CONT'D

YEAR 1970

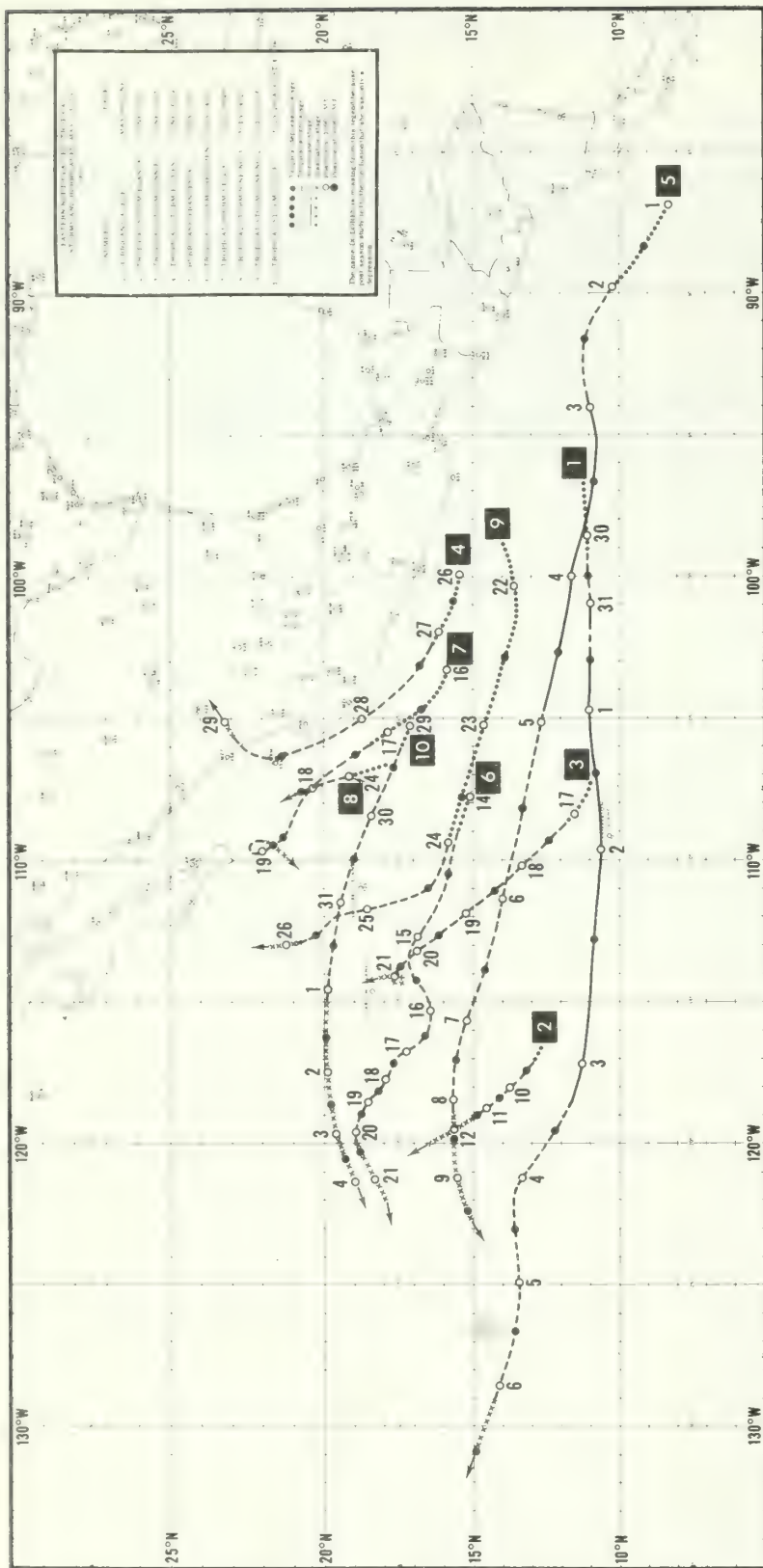
October 23 at 1230, with winds of Beaufort Force 8 still present, the HOEGH MUSKETEER, sailing east-southeastward at 18 kt., passed through the center near 19.9°N., 118.7°W. A sudden pressure drop to 1008.5 mb. was registered on the ship followed by a wind shift from northeast to southeast. Later in the day, satellite pictures revealed that the storm was dissipating rapidly.

TROPICAL STORM SELMA, NOVEMBER 1-8

The disturbance that developed into tropical storm Selma was discovered by satellite near 14.5°N., 108.5°W., on November 1. Tropical storm intensity was reached at about 1830 on November 2 near 15°N., 111°W. The new storm promptly took a recurving track toward the northeast and intensified to 60 kt. after passing 30 mi. south of Socorro Island 24 hr. later. The storm continued northeastward at 10-12 kt. through the 4th;

it then began to weaken rapidly. Selma turned back toward the west-northwest around 0000 on the 5th. The storm moved from 160 mi. south-southeast of Cape San Lucas to 125 mi. west-southwest of there during the following 2 days while weakening to a minor depression. Dissipation was completed for practical purposes on November 7 when the remains of the storm turned back toward the cape. The evaporating cloud spiral could still be seen on the satellite pictures of November 8.

If the reader desires additional synoptic details on these tropical cyclones, he should refer to the April 1971 issue of the Monthly Weather Review (Vol. 99, No. 4) containing the seasonal summary.



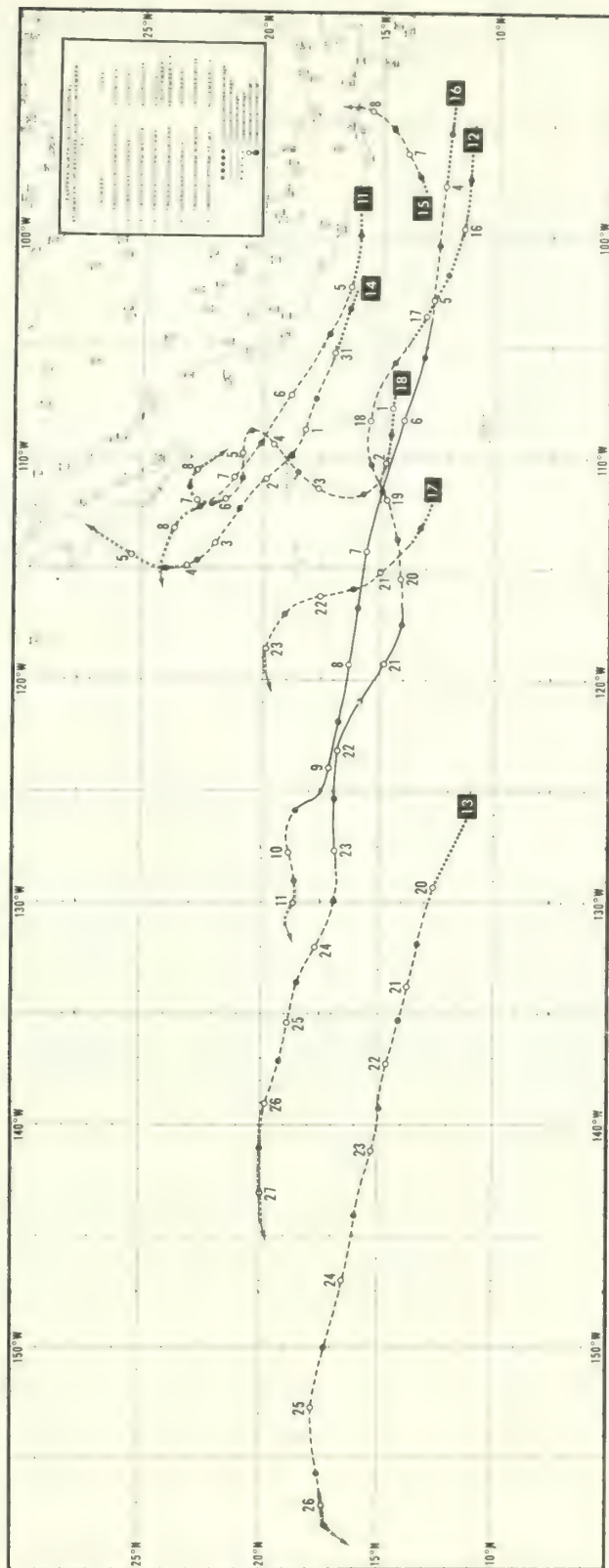


Table 1

| | May | June | July | Aug. | Sept. | Oct. | Nov. | Total |
|------------------|-----|------|------|------|-------|------|------|-------|
| Tropical storms* | 0 | 3 | 5 | 3 | 1 | 1 | 1 | 14 |
| Hurricanes* | 1 | 0 | 1 | 1 | 0 | 1 | 0 | 4 |
| Total | 1 | 3 | 6 | 4 | 1 | 2 | 1 | 18 |

*Tropical cyclones counted for the month in which they formed.

Table 2

Frequency of Tropical Storms (Including Hurricanes) by Months and Years

| | May | June | July | Aug. | Sept. | Oct. | Nov. | Total |
|--------|-----|------|------|------|-------|------|------|-------|
| 1966 | 0 | 1 | 0 | 4 | 6 | 2 | 0 | 13 |
| 1967 | 0 | 3 | 4 | 4 | 3 | 3 | 0 | 17 |
| 1968 | 0 | 1 | 4 | 8 | 3 | 3 | 0 | 19 |
| 1969 | 0 | 0 | 3 | 2 | 4 | 1 | 0 | 10 |
| 1970 | 1 | 3 | 6 | 4 | 1 | 2 | 1 | 18 |
| Totals | 1 | 8 | 17 | 22 | 17 | 11 | 1 | 77 |
| Avg. | 0.2 | 1.6 | 3.4 | 4.4 | 3.4 | 2.2 | 0.2 | 15.4 |

Note: Tropical storms have not developed before May and after November since full operational satellite coverage began in 1966. Only those storms that had their origins east of 140° W. are included in this table.

Table 3

Frequency of Tropical Storms Reaching Hurricane Intensity by Months and Years

| | May | June | July | Aug. | Sept. | Oct. | Nov. | Total |
|--------|-----|------|------|------|-------|------|------|-------|
| 1966 | 0 | 1 | 0 | 4 | 2 | 0 | 0 | 7 |
| 1967 | 0 | 1 | 0 | 2 | 1 | 2 | 0 | 6 |
| 1968 | 0 | 0 | 0 | 3 | 2 | 1 | 0 | 6 |
| 1969 | 0 | 0 | 1 | 1 | 1 | 1 | 0 | 4 |
| 1970 | 1 | 0 | 1 | 1 | 0 | 1 | 0 | 4 |
| Totals | 1 | 2 | 2 | 11 | 6 | 5 | 0 | 27 |
| Avg. | 0.2 | 0.4 | 0.4 | 2.2 | 1.2 | 1.0 | 0 | 5.4 |

Table 4.

| Name and greatest intensity | Lifespan | Origin*
(°N., °W.) | Coastlines affected | Area of dissipation
(°N., °W.) | Highest reported wind speed (kt) | Estimated maximum wind speed (kt) | Lowest reported pressure (mb) | Remarks |
|-----------------------------|-----------------------|-----------------------|-------------------------------|-----------------------------------|--------------------------------------|-----------------------------------|-------------------------------|--|
| Hurricane Adele | May 30-June 7 | 11, 97 | Clipperton Island | 15, 131 | 65
USAF recon | 75 | 992
CHEVRON BRUSSELS | Appeared considerably stronger on satellite pictures the day prior to the recon observation of 65 kt. Intensified after the lowest pressure was reported. |
| Tropical storm Blanca | June 9-12 | 13, 116 | None | 17, 120 | 50
USN recon | 50 | 1002
USN recon | |
| Tropical storm Connie | June 17-21 | 11, 107 | None | 18, 114 | 45
USAF recon | 50 | 1001
USAF recon | |
| Tropical storm Eileen | June 26-29 | 15, 100 | Mexico, southeast of Mazatlan | On land east of Mazatlan | 35
four ships | 40 | 1005
VENNACHAR | |
| Hurricane Francesa | July 1-10 | 8, 87 | None | 15, 123 | 85
ADABELLE LYKES | 85 | 991
USAF recon | |
| Tropical storm Gretchen | July 14-21 | 15, 108 | None | 18, 123 | 45
USAF and USN recon | 45 | 1000
USN recon | |
| Tropical storm Helga | July 16-20 | 16, 103 | None | 21, 110 | 35
USAF recon | 50 | 1007
USAF recon | Nowind or pressure reports near the center on date of greatest strength |
| Tropical storm Irene No. 1 | July 24-25 | 18, 107 | None | 21, 108 | 48
KAMIKAWA MARU | 48 | 1007
KAMAHARI MARU | |
| Tropical storm Irene No. 2 | July 22-26 | 14, 99 | Islas de Revilla Gigedo | 22, 113 | 45
USN recon | 60 | No report | |
| Tropical storm Joyce | July 29-August 4 | 18, 107 | Islas de Revilla Gigedo | 19, 122 | 50
USN recon | 50 | 1000
USAF recon | Had weakened to a 30-kt depression when the lowest pressure was reported |
| Tropical storm Kristen | August 4-8 | 16, 99 | None | 24, 115 | 40
PINE TREE STATE CRISTOBAL MARU | 40 | 1005
CRISTOBAL MARU | |
| Hurricane Lorraine | August 15-27 | 11, 96 | None | 20, 151 | 65
USAF recon | 100 | 963
USAF recon | No maximum wind observation made on August 22 when the pressure was 963 mb. Satellite picture indicated about 100 kt. |
| Tropical storm Maggie | August 20-28 | 13, 116 | Hawaii | 17, 160 | 50
USAF recon | 55 | 993
USAF recon | Dropped up to 15 in. of rain on island of Hawaii |
| Tropical storm Norma | August 31-September 5 | 16, 102 | None | 27, 113 | 50
USN recon | 50 | 988
USAF recon | Storm created southerly winds over northwestern Mexico supplying extraordinary amounts of moisture to extratropical storm which led to Arizona flood disaster. |
| Tropical storm Orlene | September 6-8 | 13, 96 | Mexico, east of Salina Cruz | Mexico, northeast of Salina Cruz | 45
EPIHELIA | 45 | 995
EPIHELIA | |
| Hurricane Patricia | October 3-11 | 12, 94 | None | 19, 131 | 95
USN recon | 95 | 972
USAF recon | |
| Tropical storm Rosalie | October 20-23 | 13, 112 | None | 20, 120 | 40
ILENA | 40 | 1007
ILENA | |
| Tropical storm Selma | November 1-8 | 14, 107 | None | 22, 110 | 60
USAF recon | 60 | 995
USAF recon | |

* Origin is taken as the first apparent center of enhanced shower activity or low pressure, however slight.

† The lowest reported pressure was not generally near the lowest pressure that occurred.

‡ The name IONE was applied to two discrete cyclones centered 300 mi apart, the first of which dissipated as the second intensified. Satellite pictures indicated the second to have been a near 60-kt storm on July 24 when there were no recon or ship reports.

Note: The name DOLORES is missing from this table because post-season study led to the conclusion that she was only a deep depression.

TYPHOONS OF THE WESTERN NORTH PACIFIC, 1970*

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The 1970 season was marked by the small number of typhoons which roamed the western North Pacific. Although the total number of tropical cyclones which formed (24) is near the mean, the 1970 typhoon total (12) ties the previous low in the modern 26-yr. period of record. Tables 1 and 2 contain the statistics on the storms of past years.

The 1970 season got off to a rapid start; typhoon Nancy was only the second February typhoon to form in the past 26 yr. The western North Pacific then waited until the last week in June to produce another storm. The month of July was also noticeably inactive; this was the first July since 1947 that failed to produce a typhoon. The remainder of the season was near normal; the season ended in November.

Although small in number, the 1970 typhoons packed quite a punch. Seven of these cyclones reached super-typhoon (winds ≥ 130 kt.) strength; this is above the mean (1959-1970) of 5.8, and over 50 percent of the 1970 total. The latest 11-yr. mean shows 30 percent of the typhoons attaining supertyphoon strength. Four destructive supertyphoons slashed through the Philippines and three typhoons smashed into Japan.

The 1970 typhoons are described in the following summary. Damage and casualty statistics are given, when available. Table 3 contains the vital statistics for the 1970 storms. The storm tracks (see charts) and maximum winds are based on poststorm analysis.

NANCY, FEBRUARY 18-27

Typhoon Nancy developed from an area of disturbed weather first noted on the 18th; early on the 20th, a tropical storm formed near 9°N., 149°E. The storm moved westward through the early part of the 22d, when it attained typhoon strength. Nancy then curved toward the west-northwest and passed 35 mi. south of Yap Island late on the 22d. Winds of 60 kt. with gusts to 69 kt. were reported at Yap; at this time, Nancy's winds reached 95 kt. Damage on Yap was estimated to be \$160,000 with no casualties. The major damage was caused by heavy sea action and rains.

Nancy then took aim on the Philippines. As she churned across the Philippine Sea, her winds peaked at 120 kt. early on the 24th. Nancy was still near her peak intensity when she encountered the ANTINOUS late on the 24th. The 6,065-ton American vessel reported winds in excess of 100 kt. and swells of 40 ft. Three large butane tanks on the main deck broke loose and carried away a portion of the bulwark. The ANTINOUS reported a minimum pressure of 953 mb. At this time, Nancy was only about 100 mi. east of Samar, Philippines. Nancy passed a few miles north-east of Catanduanes Island, Philippines, early on the 25th. The U.S. Coast Guard Loran station on the island recorded a wind of 120 kt., before the wind-indicating equipment jammed, and a minimum pressure of 953 mb. Property damage on Samar and Catanduanes was estimated at \$1 million.

Nancy recurved on the 25th and by late on the 26th, her highest winds had decreased to 55 kt. Nancy had degenerated to an extratropical depression by 1100 on the 27th, and by 1200 on the 28th, all that remained

was a frontal trough.

OLGA, JUNE 23-JULY 7

Supertyphoon Olga ended a long lull in tropical cyclone formation in the western North Pacific. The system that was to become Olga was first spotted as a disturbance on the 23d; late on the 28th, it became a depression near 11°N., 139°E. Intensification proceeded at a rapid pace; on the morning of the 29th, a tropical storm formed. About midday Olga attained typhoon strength near 13°N., 135°E., and early on July 1, supertyphoon Olga was packing winds estimated at 140 kt. Olga began to recurve early on the 2d, and near the end of the day, she roared over the Ryukyu Islands near 25°N., 125°E. The storm followed a northeasterly track for 2 days, recrossing the Ryukyu chain on the 4th. Kume Shima reported sustained 90-kt. winds with gusts to 110 kt. on the 4th; at that time, Olga was 50 mi. west of the island. At 0000 on the 5th, the TURRIALBA was hit with a 40-kt. southwesterly wind and 26-ft. swells near 31°N., 135°E. Olga weakened as she approached Japan. When she crossed Honshu's Kii Peninsula south of Osaka on the 5th, her winds were no longer of typhoon force, but her rains were plentiful. Olga dropped up to 13 in. of rain on Japan, causing extensive flooding, landslides, and at least eight deaths. Damage was estimated at \$10 million in and around Tokyo. The storm dissipated rapidly over land; by 0000 on the 6th, she had become extratropical. The remnants of Olga traveled westward and caused heavy damage in Korea. South Korea was pelted with heavy rains for 5 straight days, causing landslides and extensive flooding which left at least 29 dead and 2,580 homeless.

WILDA, AUGUST 1-16

Typhoon Wilda developed from a disturbance which was initially located on the 1st. This disturbance remained weak until late on the 8th when it began to intensify rapidly. Late on the 9th, Wilda became a typhoon near 22°N., 130°E. At 1800 that day, the MOBILIAN was battered by 50-kt. southeasterly winds near the storm's center. Early on the 10th, Wilda abruptly changed to a northerly track. She passed 35 mi. east of Okinawa on the 12th. The city of Naha recorded winds of 52 kt. with gusts to 64 kt. as Wilda passed by. At this time, her maximum winds were estimated at 105 kt. Wilda crossed over the Ryukyu chain early on the 13th. The barometer at Amami-o-shima dipped to 956 mb. as the eye of the storm passed overhead. Late on the 13th, Wilda veered slightly toward the northeast and took aim on Japan. She slammed into Kyushu Island near Nagasaki late on the 14th; at this time, her maximum winds were about 95 kt. Wilda continued northward along the western shores of Kyushu and Honshu and slowly began to lose strength; she became extratropical on the 16th. The extratropical remnants of Wilda traveled all the way to the Gulf of Alaska before finally dying out.

Damage reports from Japan placed the death toll due to Wilda at 11, with 326 injured. Wilda dropped up to 18 in. of rain on Japan, causing localized heavy flooding. Over 2,800 houses were reported partially or totally destroyed and 97 vessels of various sizes were sunk or were washed away.

* Based on information furnished by Fleet Weather Central, Joint Typhoon Warning Center, Guam, Mariana Islands.

TYPHOONS OF THE WESTERN NORTH PACIFIC - CONT'D

YEAR 1970

ANITA, AUGUST 12-22

About the same time Wilda was slashing across Japan, Anita was preparing to follow in her footsteps. Anita began as a weak disturbance on the 12th, and by late on the 16th, she had reached typhoon strength near 20°N., 141°E. Anita attained her maximum strength on the afternoon of the 19th when her winds reached 135 kt. near the center; she maintained supertyphoon intensity for less than 1 day. Anita was packing maximum winds of 105 kt. when she unleashed her fury on the island of Shikoku, Japan, late on the 20th; an accompanying storm surge of 7.7 ft. flooded parts of Kochi City which was about 40 mi. northeast of Anita's point of landfall. Murotomisaki Weather Station, 60 mi. east of the center, measured winds of 100 kt. with gusts to 124 kt. The 12,492-ton British tanker TEXACOEDINBURGH dragged her anchors in the storm and was grounded near Yugesima. The 2,739-ton ship KOYO MARU sank at Okitsu, Honshu. At least 31 boats were also sunk in the gale-whipped seas. Anita cut a destructive path over Shikoku and Honshu, causing heavy rains (up to 15 in.), floods, landslides, and at least 23 deaths. There were also 556 injured and 5,000 houses partially or totally destroyed. Anita entered the Sea of Japan and was downgraded to a tropical storm late on the 21st; she became extra-tropical on the 22d.

BILLIE, AUGUST 22-SEPTEMBER 1

Typhoon Billie can be traced back to a disturbance which lay over the central Philippine Sea on the 22d. The disturbance intensified to tropical storm strength early on the 23d, and by late on the 24th, the system had reached typhoon intensity near 18°N., 131°E. Billie, moving on a northerly track, battered the EVERGREEN STATE with 50-kt. south-southeasterly winds, 17-ft. seas, and 20-ft. swells near 19°N., 134°E. Billie changed to a northwesterly course on the 27th shortly after attaining maximum winds of 110 kt. She crossed the Ryukyu chain just south of Amami-o-shima and entered the South China Sea. At 1200, the STRAAT HOLLAND reported a 40-kt. southerly wind near 26°N., 130°E., and the CATHAY was struck with similar winds from a northwesterly direction near 27°N., 128°E. Billie brushed Cheju Do and the southwestern Korea Peninsula on the 30th, causing flooding and landslides and killing at least 15 persons. Billie was downgraded to a tropical storm at 0000 on the 31st; she entered the Korea Peninsula approximately 100 mi. west of Seoul and dissipated over land.

CLARA, AUGUST 20-SEPTEMBER 4

Clara, the fourth typhoon to form in August, began as a disturbance south of Marcus Island on the 20th; by the morning of the 25th, she was an organized tropical storm near 29°N., 152°E. Clara became a typhoon 2 days later near 32°N., 145°E.; she was only the fifth storm to reach typhoon intensity north of 30°N. since 1945. Moving toward the northwest at 9 kt., Clara pounded the NEGBA with 50-kt. southerly winds at 1200 on the 28th near 34°N., 144°E. At this time, Clara's maximum winds were 85 kt. near the center. Late on the 28th, when she was only 120 mi. east of Tokyo, Clara began to change course abruptly and by early on the 29th, she was on an easterly track. At 0300 on the 30th, the Swedish vessel SONETTE

near 36°N., 147°E., or about 50 mi. west of the typhoon's center, was blasted by 80-kt. winds, heavy rains, 18-ft. seas, and 23-ft. swells. Clara reached her minimum pressure of 965 mb. later that day, and at 0600 on the 31st, the USCGC WINNEBAGO, about 40 mi. north of the center near 35°N., 155°E., clocked easterly 54-kt. gales and recorded a 994-mb. surface pressure. The USCGC CHAUTAUQUA, at Ocean Station "V" near 34°N., 164°E., measured 45-kt. west-southwesterly gales at 0600 on September 2. Clara slowed her forward speed late on the 2d, and she was downgraded to a tropical storm near 34°N., 165°E. Clara continued to dissipate and became extra-tropical late on the 3d.

GEORGIA, SEPTEMBER 3-14

A tropical disturbance spotted by the ITOS 1 satellite on the 3d marked the beginning of supertyphoon Georgia. Early on the 8th, the westward moving system attained tropical storm strength near 15°N., 131°E., and by the end of the day, she had reached typhoon intensity. Georgia continued to intensify as she approached the Philippines. She attained supertyphoon strength on the 11th near 16°N., 125°E., and shortly before landfall, her maximum winds were estimated at 140 kt. Georgia slammed into Luzon Island, Philippines, at about 0000 on the 11th, virtually leveling the town of Casiguran which was 15 mi. north of the center at landfall. Casiguran reported a minimum pressure of 978 mb. and maximum winds estimated at 120 kt. Many boats were overturned in Casiguran Sound. Georgia moved across Luzon and entered the South China Sea at typhoon strength late on the 11th, leaving behind 95 dead and an additional 80 missing. Property damage was estimated at \$1.4 million. Georgia spent the next 3 days over water and entered mainland China about 60 mi. east of Hong Kong early on the 14th. Maximum gusts of 59 kt. were measured at Kai Tak airport in Hong Kong.

HOPE, SEPTEMBER 13-30

Supertyphoon Hope can be traced to a seedling which was discovered by ITOS 1 on the 13th near 11°N., 175°E. The system moved westward, crossing the International Date Line on the 16th, and developed into a tropical storm during the middle of the 19th. Hope attained typhoon strength and changed to a northwesterly course shortly after 1200 on the 21st near 15°N., 158°E. The storm followed this track for 2 days and continued to deepen; she reached supertyphoon force late on the 23d. At 2100 on the 23d, a reconnaissance plane found that Hope's central pressure had dropped 84 mb. in the past 24 hr. to 895 mb.--the lowest sea-level pressure recorded in the Northern Hemisphere in 1970. At his time, Hope's maximum winds were estimated at 150 kt. Hope's winds dropped below 130 kt. as she approached Chi Chi Jima. The center passed 30 mi. northeast of Chi Chi Jima on the 25th; that station reported 45-kt. winds with gusts to 89 kt. and a low barometer reading of 973 mb. Hope began to recurve late on the 25th, and her new easterly course brought 45-kt. winds and 20-ft. swells to the PRESIDENT HARDING at 1200 on the 27th and 0000 on the 28th as the American ship sailed southwestward near 31°N., 150°E. Hope was downgraded to a tropical storm late on the 28th near 31°N., 156°E. She became an extratropical 1010 mb. LOW a short time after-

TYPHOONS OF THE WESTERN NORTH PACIFIC - CONT'D

YEAR 1970

ward.

IRIS, OCTOBER 2-8

Iris, the first tropical storm to develop into a typhoon in the South China Sea in October since 1957, began as a disturbance on the 2d. The system intensified to tropical storm strength about midday on the 3d near 15°N., 111°E., and Iris was upgraded to a typhoon late on the 4th near the Parcel Islands group. The Chinese weather station in the Parcel Islands reported winds of 68 kt. as Iris passed 10 mi. to the west. Iris attained her maximum strength on the 5th; about midday her peak winds were estimated at 100 kt. Iris weakened as she approached Hong Kong. By the afternoon of the 8th, she had degenerated to a weak perturbation, and all traces of the storm had disappeared by the 9th.

JOAN, OCTOBER 7-18

Supertyphoon Joan was initially detected as an easterly wave on the 7th; by 1700 on the 9th, a tropical storm had formed near 9°N., 142°E. Moving in a west-northwesterly direction, Joan attained typhoon strength on the morning of the 11th, and by 1200 on the 12th, she had become a supertyphoon. Shortly before making landfall in the Philippines, Joan's maximum winds were estimated at 150 kt., and a minimum pressure of 901 mb. was recorded by dropsonde. Joan brushed Catanduanes Island and made landfall in the Lagonoy Gulf region of southern Luzon on the 13th. The U.S. Coast Guard Loran station on the island, 30 mi. north of the typhoon center, measured winds of 90 kt. with gusts to 110 kt. before the anemometer failed. The Philippine Weather Bureau station at Virac suffered heavy damage; a minimum pressure of 951 mb. was recorded and winds were estimated at 150 kt. Joan roared over Luzon, passing within 20 mi. of Manila, and entered the South China Sea on the 14th. The international airport at Manila reported peak gusts of 84 kt. and a minimum pressure of 977 mb. as Joan passed by. The USCGC BLACKSHAW, anchored in Manila Bay, recorded gusts of 75 kt. Joan crossed the northeastern tip of Hainan on the 17th and entered mainland China south of Chan-Chaing on the 18th.

Joan left 575 dead, 193 missing, 1,590 injured, and 80,000 homeless in the Philippines. Damage was estimated at \$74 million, and the agricultural crop loss was thought to be as high as 90 percent in some areas. The 4,696-ton Panamanian ship COLLIN ROSE, loaded with cement, grounded at Paluan Bay. The vessel was abandoned by her crew, and the hull was later reported broken. The 2,993-ton Japanese vessel KYOSHIN MARU ran into rocks and sank in Lagonoy Gulf. One crewman died. A passenger launch capsized in the stormy seas, killing six people, and a wrecked ship believed to be an old Spanish galleon was washed within 2 mi. of the shore of Panay Island.

KATE, OCTOBER 6-25

While the Philippines were still reeling from the effects of Joan, yet another supertyphoon was rearing its head near the Caroline Islands. Kate can be traced back as a disturbance to the 6th, but she lay dormant until late on the 13th. Rapid intensification then occurred, and the small, highly concentrated system attained typhoon intensity about 1200 on the 15th near 4°N., 138°E. Kate moved westward at an unusually

low latitude and continued to intensify. She swung toward the northwest on the 17th, and became a super-typhoon shortly after crossing the 5th parallel. Around midday on the 18th, Kate became the second super-typhoon to strike the Philippines in 5 days as she roared over Mindanao Island. This region where Kate made landfall was unaccustomed to the effects of tropical cyclones, and many structures built with light housing materials were damaged. Flooding caused by the accompanying storm surge and heavy rains destroyed over 5,000 houses and other structures in southern Mindanao. A total of 631 persons were killed with an additional 284 listed as missing; the death toll ranks above all other typhoons on record, making Kate the worst killer typhoon experienced by that country. Damage estimates were about \$50 million.

Kate was reduced to a tropical storm late on the 18th, but she regained typhoon strength shortly before passing over Basuanga Island on the 19th. The U.S. Coast Guard Loran station on Basuanga recorded gusts to 76 kt. as Kate passed by. Kate switched to a west-southwesterly course on the 22d and began to weaken slowly. Reduced to a tropical storm, she made landfall in Vietnam just south of DaNang on the 25th. The DaNang airfield reported winds of 40 kt. with gusts to 66 kt. Kate rapidly weakened after moving inland.

PATSY, NOVEMBER 12-22

The last typhoon of the season, and the third supertyphoon to strike the Philippines in slightly more than a month, was spawned by a disturbance first observed on the 12th north of the Marshall Islands. The single-minded system set off on a westerly course, which it maintained for most of its life. Late on the 15th, Patsy attained typhoon strength near 15°N., 141°E. Intensification continued for the next 2 days, and early on the 19th, when Patsy was only about 100 mi. east of Manila, a reconnaissance plane found she was packing maximum winds of 135 kt. and her pressure had dipped to 918 mb. On the 19th, Patsy became the third super-typhoon of the season to rake Luzon Island; she passed very close to Manila, blasting the international airport with gusts to 108 kt. The Naval Air Stations on Manila Bay and Subic Bay both recorded gusts to 78 kt. as Patsy passed within 10 mi. of them. The toll on Luzon Island stands at 241 dead and 351 missing, including 135 lost at sea. At least 1,756 persons were injured, and the Philippine Red Cross estimated that there were 31,382 refugees in Manila alone whose homes were completely or partially destroyed. The 8,192-ton Greek vessel ALIAKMON PIONEER broke her moorings because of the typhoon. She collided first with a lighter, secondly with the PRESIDENT TAFT, and then grounded. The 7,838-ton Panamanian freighter MARITES grounded off the Manila Bay breakwater, and the 7,632-ton Philippine ship PRESIDENT ROXAS ran aground at Roxas Boulevard, Manila, at the entrance to the yacht club. Two other vessels which ran aground in the Philippines area were the 3,397-ton Philippine motorship BICOLANO and the 1,102-ton Panamanian freighter SLIDRE.

Patsy entered the South China Sea with maximum winds of 80 kt. near her center. She attempted to regain her former strength but failed, and late on the 19th, she dropped below typhoon intensity. Patsy made landfall over Vietnam on the 22d, just north of Quang Tri. That station reported maximum winds of 35 kt. with gusts to 47 kt. as the tropical storm moved inland. Patsy rapidly dissipated over the country's highland region.

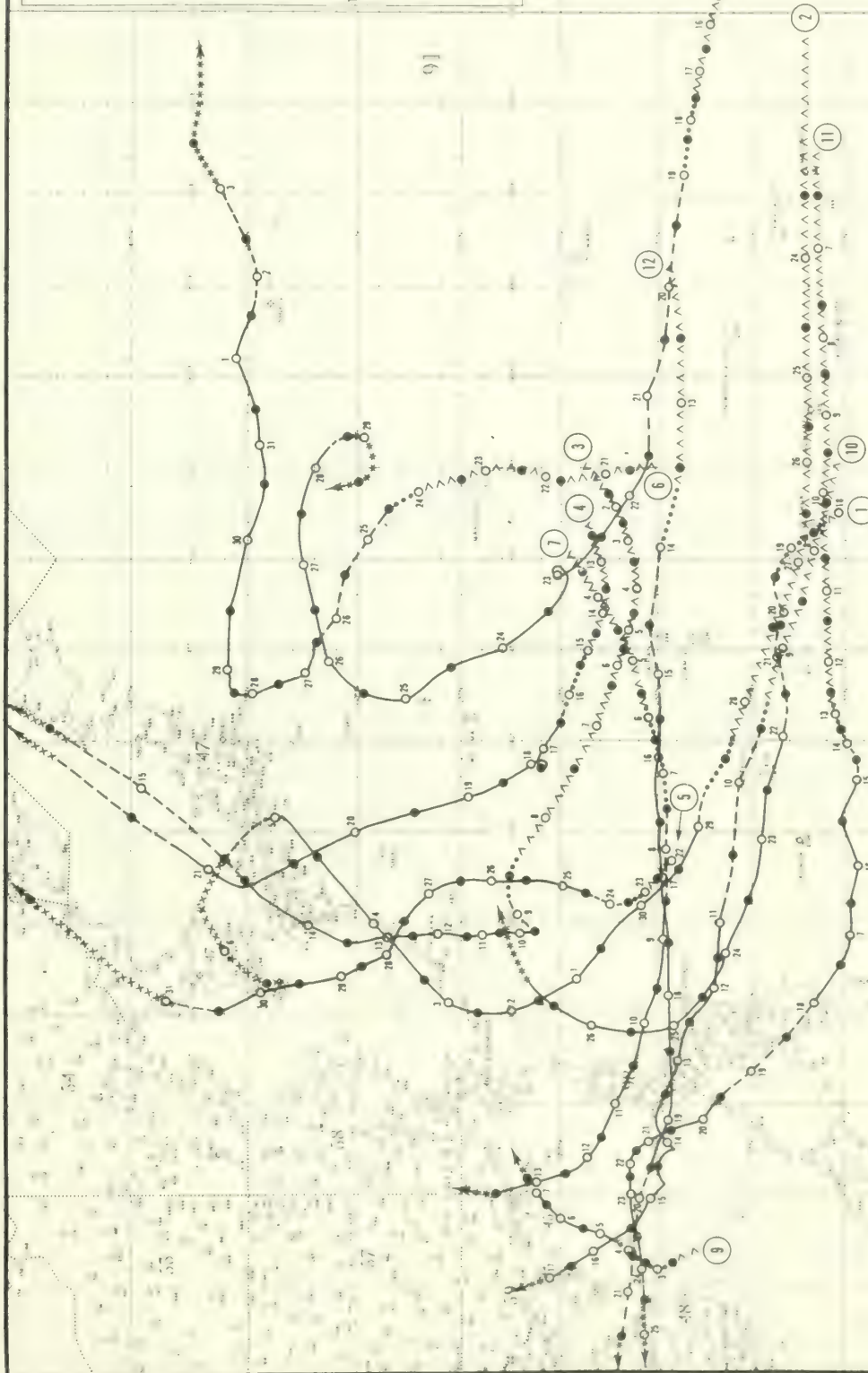
WESTERN NORTH PACIFIC TYPHOONS, 1970

| NO. | NAME | DATES |
|-----|----------|----------------|
| 1 | NANCY | FEB 18 27 |
| 2 | OLGA | JUNE 23 JULY 7 |
| 3 | WILDA | AUG 1 16 |
| 4 | ANITA | AUG 12 22 |
| 5 | BILLIE | AUG 22 SEPT 1 |
| 6 | CLARA | AUG 20 SEPT 4 |
| 7 | GEORGINA | SEPT 3 14 |
| 8 | HOPE | SEPT 13 30 |
| 9 | IRIS | OCT 2 8 |
| 10 | JOAN | OCT 7 18 |
| 11 | KATE | OCT 6 25 |
| 12 | PATSY | NOV 12 22 |

+ REACHED SUPERTYPHOON INTENSITY
(130 KT OR GREATER)

TROPICAL STORM WINDS 34 THROUGH 63 KT
TYPHOON WINDS 64 KT OR HIGHER

- ^ ^ ^ TROPICAL DISTURBANCE
- TROPICAL DEPRESSION
- - - TROPICAL STORM STAGE
- TYPHOON STAGE
- xxxxx EXTRATROPICAL STAGE
- ***** DEPRESSION (DISSIPATION STAGE)
- O POSITION 1200 GMT
- POSITION 0000 GMT



WESTERN NORTH PACIFIC

TROPICAL STORMS

NO NAME DATES

1 PAMELA JUNE 26 30
2 RUBY JULY 10 16
3 SALLY JULY 18 23
4 THERESE JULY 30 AUG 3
5 VIOLET AUG 5 9
6 ELLEN SEPT 1 6
7 FRAN SEPT 3 7
8 LOUISE OCT 23 29
9 MARGE OCT 24 NOV 6
10 NORA OCT 31 NOV 3
11 OPAL NOV 10 17
12 RUTH NOV 19 29

TROPICAL STORM (WINDS 34 THROUGH 63 KT)

TTTTT TROPICAL DISTURBANCE

..... TROPICAL DEPRESSION

--- TROPICAL STORM STAGE

*** DEPRESSION (DISSIPATION STAGE)

○ POSITION AT 1200 GMT

● POSITION AT 0000 GMT

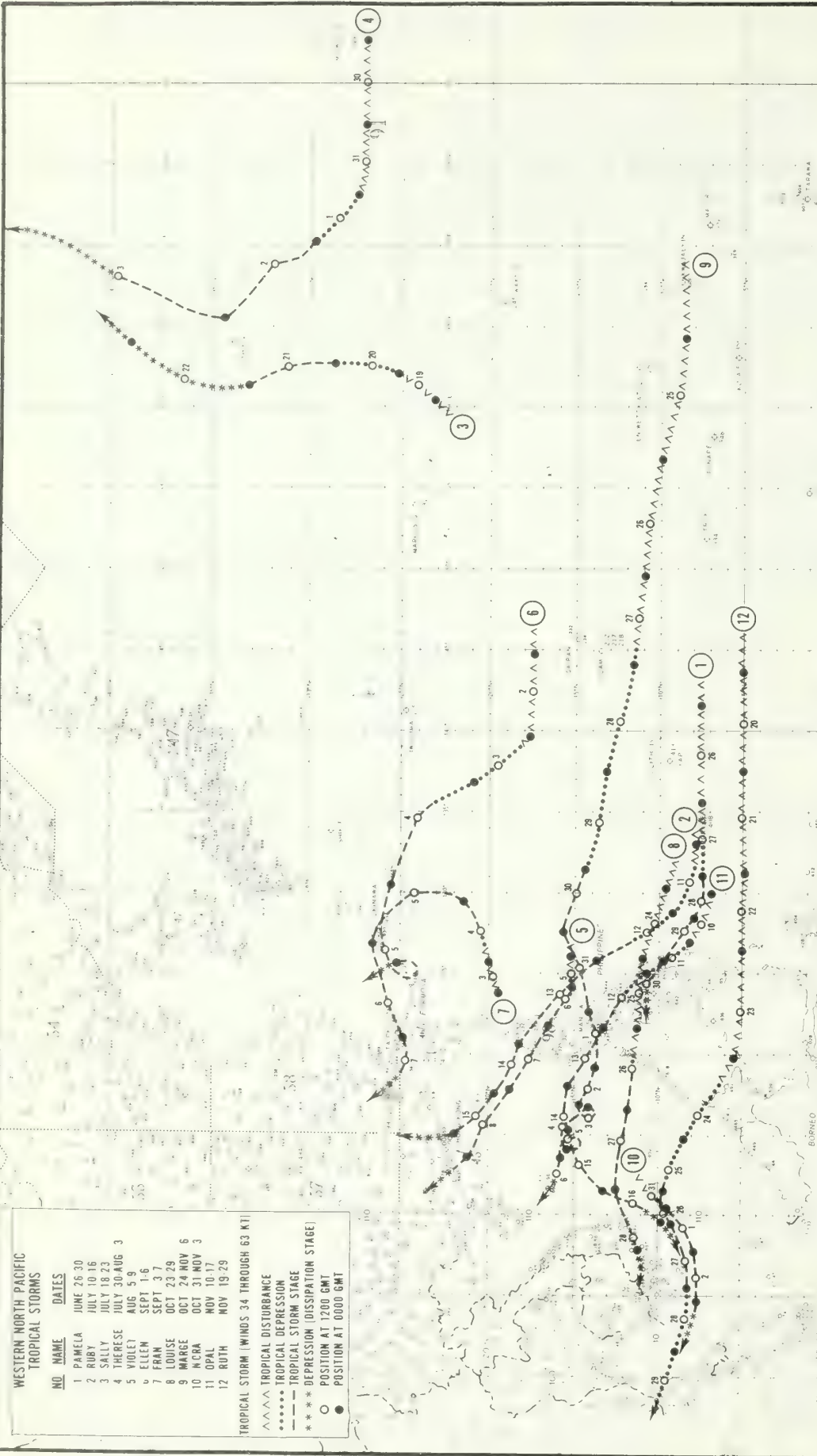


Table 1

Frequency of Tropical Cyclones (Including Typhoons) by Months and Years

| | Jan. | Feb. | Mar. | April | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. | Total |
|--------|------|------|------|-------|------|------|------|------|-------|------|------|------|-------|
| 1945 | | | | 1 | 1 | 2 | 5 | 7 | 6 | 1 | 3 | | 26 |
| 1946 | | | 1 | | 1 | 2 | 3 | 2 | 3 | 1 | 2 | | 15 |
| 1947 | | | 1 | | 1 | 1 | 3 | 3 | 5 | 6 | | 1 | 27 |
| 1948 | 1 | | | | 2 | 2 | 2 | 5 | 5 | 4 | 3 | 2 | 26 |
| 1949 | 1 | | | | | 1 | 5 | 3 | 6 | 1 | 3 | 2 | 22 |
| 1950 | | | | | 1 | 2 | 3 | 2 | 3 | 3 | 3 | 1 | 18 |
| 1951 | | | 1 | 2 | 1 | 1 | 1 | 2 | 2 | 4 | 1 | 2 | 17 |
| 1952 | | | | | | 3 | 3 | 4 | 5 | 6 | 3 | 4 | 28 |
| 1953 | | 1 | | | 1 | 2 | 2 | 6 | 3 | 4 | 3 | 1 | 23 |
| 1954 | | | 1 | | 1 | | 1 | 6 | 4 | 3 | 3 | | 19 |
| 1955 | 1 | | 1 | 1 | | 1 | 6 | 3 | 3 | 4 | 1 | 1 | 22 |
| 1956 | | | 1 | 2 | | 1 | 2 | 5 | 5 | 2 | 3 | 1 | 22 |
| 1957 | 2 | | | 1 | 1 | 1 | 1 | 3 | 5 | 4 | 3 | | 21 |
| 1958 | 1 | | | | 1 | 3 | 5 | 3 | 3 | 3 | 2 | 1 | 22 |
| 1959 | | 1 | 1 | 1 | | | 3 | 6 | 6 | 4 | 2 | 2 | 26 |
| 1960 | | | | 1 | 1 | 3 | 3 | 10 | 3 | 4 | 1 | 1 | 27 |
| 1961 | 1 | 1 | 1 | 1 | 3 | 2 | 5 | 4 | 6 | 5 | 1 | 1 | 31 |
| 1962 | | 1 | | 1 | 2 | | 6 | 7 | 3 | 5 | 3 | 2 | 30 |
| 1963 | | | | 1 | 1 | 3 | 4 | 3 | 5 | 5 | | 3 | 25 |
| 1964 | | | | | 2 | 2 | 7 | 9 | 7 | 6 | 6 | 1 | 40 |
| 1965 | 2 | 2 | 1 | 1 | 2 | 3 | 5 | 6 | 7 | 2 | 2 | 1 | 34 |
| 1966 | | | | 1 | 2 | 1 | 5 | 8 | 7 | 3 | 2 | 1 | 30 |
| 1967 | 1 | | 2 | 1 | 1 | 1 | 6 | 8 | 7 | 4 | 3 | 1 | 35 |
| 1968 | | | | 1 | 1 | 1 | 3 | 8 | 3 | 6 | 4 | | 27 |
| 1969 | 1 | | 1 | 1 | | | 3 | 4 | 3 | 3 | 2 | 1 | 19 |
| 1970 | | 1 | | | | 2 | 2 | 6 | 4 | 5 | 4 | | 24 |
| Totals | 11 | 7 | 12 | 17 | 26 | 40 | 94 | 133 | 119 | 98 | 69 | 30 | 656 |
| Avg. | .42 | .27 | .46 | .65 | 1.00 | 1.54 | 3.62 | 5.12 | 4.58 | 3.76 | 2.65 | 1.15 | 25.23 |

Table 2

Frequency of Tropical Cyclones Reaching Typhoon Intensity by Months and Years

| | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. | Total |
|--------|------|------|------|------|-----|------|------|------|-------|------|------|------|-------|
| 1945 | | | | | | 1 | 2 | 5 | 3 | 1 | 1 | | 13 |
| 1946 | | | 1 | | 1 | 1 | 3 | 1 | 3 | 1 | 2 | | 13 |
| 1947 | | | | | 1 | 1 | | 3 | 4 | 5 | 4 | 1 | 19 |
| 1948 | 1 | | | | 2 | | 2 | 2 | 4 | 1 | 2 | 1 | 15 |
| 1949 | 1 | | | | | 1 | 3 | 3 | 3 | 1 | 1 | 1 | 14 |
| 1950 | | | | | 1 | 1 | 1 | 2 | 1 | 3 | 2 | 1 | 12 |
| 1951 | | | 1 | 2 | 1 | 1 | 1 | 2 | 2 | 3 | 1 | 2 | 16 |
| 1952 | | | | | | 3 | 1 | 3 | 3 | 4 | 3 | 2 | 19 |
| 1953 | | 1 | | | 1 | 1 | 2 | 4 | 2 | 4 | 1 | 1 | 17 |
| 1954 | | | | | 1 | | 1 | 4 | 4 | 2 | 3 | | 15 |
| 1955 | 1 | | 1 | 1 | | 1 | 5 | 3 | 3 | 2 | 1 | 1 | 19 |
| 1956 | | | 1 | 1 | | | 2 | 4 | 5 | 1 | 3 | 1 | 18 |
| 1957 | 1 | | | 1 | 1 | 1 | 1 | 2 | 5 | 3 | 3 | | 18 |
| 1958 | 1 | | | | 1 | 3 | 4 | 3 | 3 | 3 | 1 | 1 | 20 |
| 1959 | | | | 1 | | | 1 | 5 | 3 | 3 | 2 | 2 | 17 |
| 1960 | | | | 1 | | 2 | 2 | 8 | | 4 | 1 | 1 | 19 |
| 1961 | | | 1 | | 2 | 1 | 3 | 3 | 5 | 3 | 1 | 1 | 20 |
| 1962 | | | | 1 | 2 | | 5 | 7 | 2 | 4 | 3 | | 24 |
| 1963 | | | | 1 | 1 | 2 | 3 | 3 | 3 | 4 | | 2 | 19 |
| 1964 | | | | | 2 | 2 | 6 | 3 | 5 | 3 | 4 | 1 | 26 |
| 1965 | 1 | | | 1 | 2 | 2 | 4 | 3 | 5 | 2 | 1 | | 21 |
| 1966 | | | | 1 | 2 | 1 | 3 | 6 | 4 | 2 | | 1 | 20 |
| 1967 | | | 1 | 1 | | 1 | 3 | 4 | 4 | 3 | 3 | | 20 |
| 1968 | | | | 1 | 1 | 1 | 1 | 4 | 3 | 5 | 4 | | 20 |
| 1969 | 1 | | | 1 | | | 2 | 3 | 2 | 3 | 1 | | 13 |
| 1970 | | 1 | | | | 1 | | 4 | 2 | 3 | 1 | | 12 |
| Totals | 7 | 2 | 6 | 14 | 22 | 28 | 61 | 94 | 83 | 73 | 49 | 20 | 459 |
| Avg. | .27 | .08 | .23 | .54 | .85 | 1.08 | 2.35 | 3.62 | 3.19 | 2.81 | 1.88 | .77 | 17.65 |

Table 3

| Name | Intensity | Date | Maximum
surface
wind (knots) | Minimum
observed
sea level
pressure (mb) | Deaths | Missing | Principal areas
Affected |
|---------|----------------|-----------------|--|---|--------|---------|---|
| NANCY | Typhoon | Feb. 18-27 | 120 | 949 | --- | --- | Yap, Philippines |
| OLGA | Typhoon | June 24-July 7 | 140 | 904 | 37 | --- | Ryukyus, Japan, Korea |
| PAMELA | Tropical storm | June 26-30 | 55 | 980 | --- | --- | Philippines |
| RUBY | Tropical storm | July 10-16 | 50 | 984 | --- | --- | Philippines, China |
| SALLY | Tropical storm | July 18-23 | 40 | 989 | --- | --- | None |
| THERESE | Tropical storm | July 30-Aug. 3 | 40 | 988 | --- | --- | None |
| VIOLET | Tropical storm | Aug. 5-9 | 40 | 990 | --- | --- | Philippines, China |
| WILDA | Typhoon | Aug. 2-16 | 105 | 939 | 11 | 1 | Ryukyus, Japan |
| ANITA | Typhoon | Aug. 13-22 | 135 | 912 | 23 | 4 | Japan |
| BILLIE | Typhoon | Aug. 22-Sept. 1 | 110 | 946 | 15 | --- | Ryukyus, Korea |
| CLARA | Typhoon | Aug. 21-Sept. 4 | 85 | 965 | --- | --- | None |
| DOT | | | (NAME GIVEN TO CENTRAL PACIFIC HURRICANE)* | | | | |
| ELLEN | Tropical storm | Sept. 1-6 | 40 | 984 | --- | --- | Ryukyus |
| FRAN | Tropical storm | Sept. 3-7 | 55 | 976 | 78 | --- | Philippines, Ryukyus, Taiwan |
| GEORGIA | Typhoon | Sept. 4-14 | 140 | 904 | 95 | 80 | Philippines, Hong Kong, China |
| HOPE | Typhoon | Sept. 14-30 | 150 | 895 | --- | --- | Chi Chi Jima |
| IRIS | Typhoon | Oct. 2-8 | 100 | 944 | --- | --- | Parcel Islands |
| JOAN | Typhoon | Oct. 8-18 | 150 | 901 | 575 | 193 | Philippines, Parcel Islands, Hong Kong, China |
| KATE | Typhoon | Oct. 7-25 | 130 | 938 | 631 | 284 | Philippines, Vietnam |
| LOUISE | Tropical storm | Oct. 23-29 | 60 | 978 | --- | --- | Vietnam |
| MARGE | Tropical storm | Oct. 24-Nov. 6 | 55 | 987 | --- | --- | Philippines |
| NORA | Tropical storm | Oct. 31-Nov. 3 | 50 | 1002 | --- | --- | None |
| OPAL | Tropical storm | Nov. 10-17 | 50 | 991 | --- | --- | Philippines, Vietnam |
| PATSY | Typhoon | Nov. 13-22 | 135 | 918 | 241 | 351 | Philippines, Vietnam |
| RUTH | Tropical storm | Nov. 20-29 | 40 | 995 | 30 | --- | Thailand |

TROPICAL CYCLONES IN THE CENTRAL NORTH PACIFIC 1970 *

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HURRICANE DOT, SEPTEMBER 1-4

Hurricane Dot was only the sixth tropical cyclone to attain tropical storm or hurricane strength between 140°W. and 180° in the last 15 yr. (table 4). Dot was first observed as a tropical wave near Midway Island early on the 1st. Later that day, the wave strengthened to yield a tropical depression near 30°N., 178°W. Dot attained tropical storm strength on the 2d, and after recurving a scant 10 mi. from the International Date Line, she was found to be packing 70-kt. winds near her center. Dot lost strength rapidly later on the 3d; on the 4th, she was absorbed into the cold circulation of a 1004 mb. LOW near 42°N., 170°W.

Table 4--Tropical cyclones attaining tropical storm strength between 140°W. and 180° (1956-1970)

| Aug. | Sept. | Oct. | Nov. | Total |
|------|-------|------|------|-------|
| 2 | 3 | 0 | 1 | 6 |

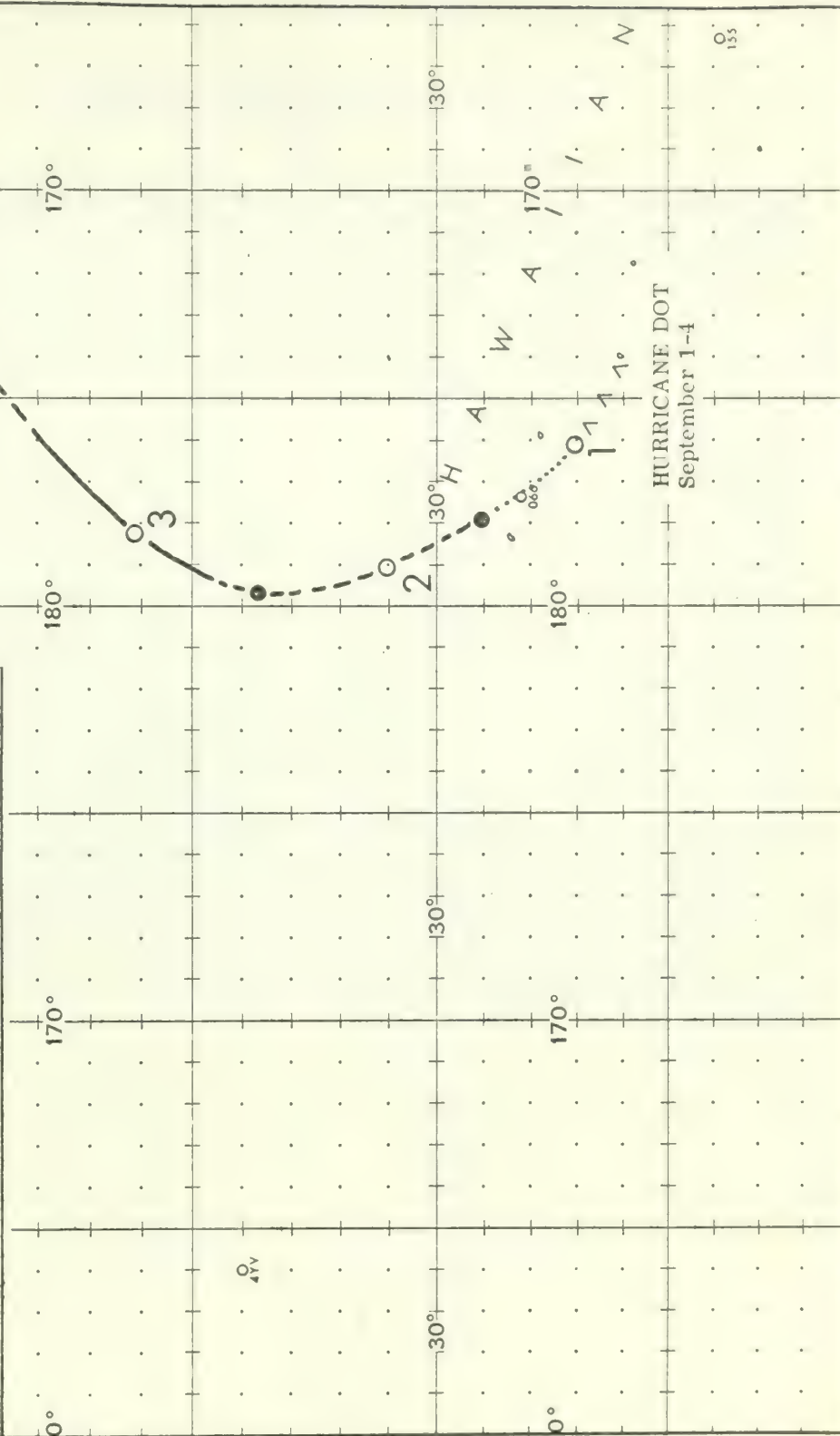
If the reader desires additional synoptic details of these storms of the Western and Central North Pacific, he should refer to the appropriate issue of the Monthly Weather Review.

* Based on information furnished by Fleet Weather Central, Joint Typhoon Warning Center, Guam, Mariana Islands.

^ ^ ^ ^ Tropical Disturbance
 Tropical Depression
 - - - - Tropical Storm stage
 - - - - Hurricane stage
 + + + + Extratropical stage
 * * * * * Depression (dissipation stage)

○ POSITION AT 1200 G.M.T.

● POSITION AT 0000 G.M.T.



Track of Central North Pacific Hurricane Dot, Sept. 1-4, 1970.

GENERAL SUMMARY OF FLOOD LOSSES FOR 1969

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Office of Hydrology, National Weather Service

Monetary losses from floods in the United States during 1969, estimated at \$902.6 million, were 2.6 times greater than the \$350 million loss reported in 1968. Flood losses during 1969 were greater than the previous three years, combined. It was the greatest loss in any one year since 1955, when more than \$995 million dollars in damages were reported. In comparison to the 15-year (1951-1965) national average of \$400 million (adjusted to the 1965 price index) the flood losses during 1969 were 2.25 times greater.

Total loss of life in 1969 from floods was 297 compared to 31 in 1968. This is the second greatest loss of life reported since 1955 when 302 lives were lost.

The most damaging floods during 1969 occurred in California during January and February. Estimates of flood damage were placed at \$399.2 million and the loss of life at 60. Flood losses in this area equalled 44% of the total damages in the United States during 1969. The flooding in southern California during January was the most severe since 1938. The flooding in the Salinas Basin was more severe in February than in January, which was the most severe since 1952. Major damage in the San Joaquin Basin was confined to the valley floor and in the lower foothill areas. The President allocated \$108 million to the State for relief and restoration activities, making the disaster the most costly in the history of the U. S. Major Disaster Program.

The second most damaging flooding in the nation during 1969 was the snowmelt floods in the Red River of the North, Upper Mississippi, and Missouri Basins during March and April. The total damages were estimated at \$151 million and the loss of life at nine. It was the worst flood of record at many places in the Red River of the North Basin, and on tributaries of the Missouri River in the Dakotas and Iowa. Record or near-record flooding also occurred on tributaries of the Upper Mississippi River in Minnesota and Iowa, and along the main stem from the headwaters down to Davenport, Iowa. Accurate and timely flood forecasts and Operation Foresight, the federally sponsored co-

operative effort to minimize flood losses, kept the death toll low, and prevented at least \$100 million in additional damages. Existing flood-control projects prevented an additional \$97 million of potential damage.

The most disastrous flooding occurred in the James Basin in Virginia during August. The total number of deaths by drowning and mudslides was placed at 153. More than one-half of the deaths from drowning during 1969 occurred in this area during August. The total damages in Virginia were estimated at \$116 million. The disastrous flooding resulted from torrential rains associated with tropical depression "Camille". The torrential rains caused extensive and severe flash flooding in Rockbridge, Amherst, Nelson, Albermarle, and Fluvanna counties. The hardest hit by the flash flooding were the Tye and Rockfish River Basins, most of which lie within Nelson County. Devastating and extreme flash flooding occurred in the Maury and Hardware Basins and in portions of the Rivanna Basin. Record stages were reached on the Maury and Rivanna Rivers and on the James River in the reach from Holcombs Rocks, Va., to Richmond, Va., (except at Lynchburg and Scottsville). The west-central portion of the State was declared a disaster area by the President. One million dollars in federal aid was made available immediately for repair and replacement of roads, bridges, and other public facilities.

The fourth most disastrous flooding during 1969 occurred in northern Ohio during July. The total damages were estimated at nearly \$88 million. Of the 37 fatalities reported in this storm, 30 were due to floods. The hardest hit communities were Wooster, Ashland, Millersburg, Loudonville, and Killbuck, Ohio, in the Ohio Basin and Norwalk and Vermillion in the Great Lakes Drainage.

The four disastrous floods during 1969 accounted for flood losses totalling \$754.2 million or 84% of the total for the year. The total loss of life in the four floods equalled 252 or 84% of the total loss of lives for the year.

ANNUAL FLOOD LOSSES FOR UNITED STATES

Annual Flood Losses and Savings for years 1933 to 1947, inclusive, have been published in the Monthly Weather Review as follows:

| <u>Year</u> | <u>Issue</u> | <u>Pages</u> |
|-------------|----------------------------|--------------|
| 1933 | Vol. 62, No. 1, Jan. 1934 | 25-27 |
| 1934 | Vol. 62, No. 12, Dec. 1934 | 465-467 |
| 1935 | Vol. 63, No. 12, Dec. 1935 | 362-365 |
| 1936 | Vol. 65, No. 1, Jan. 1937 | 28-31 |
| 1937 | Vol. 66, No. 12, Dec. 1938 | 426-430 |
| 1938 | Vol. 68, No. 9, Sept. 1940 | 262-263 |
| 1939 | Vol. 68, No. 11, Nov. 1940 | 329-330 |
| 1940 | Vol. 69, No. 7, July 1941 | 217-218 |
| 1941 | Vol. 71, No. 11, Nov. 1943 | 185-186 |
| 1942 & 1943 | Vol. 73, No. 8, Aug. 1945 | 137-139 |
| 1944 & 1945 | Vol. 76, No. 6, June 1948 | 113-116 |
| 1946 | Vol. 76, No. 9, Sept. 1948 | 208-210 |
| 1947 | Vol. 77, No. 9, Sept. 1949 | 262-265 |

Beginning with flood losses for the year 1948, annual flood loss data are published in Climatological Data National Summary as follows:

| <u>Year</u> | <u>Issue</u> | <u>Year</u> | <u>Issue</u> |
|-------------|--------------|-------------|--------------|
| 1948 | August 1950 | 1959 | Annual 1960 |
| 1949 | Annual 1950 | 1960 | Annual 1961 |
| 1950-1951 | Annual 1951 | 1961 | Annual 1962 |
| 1952 | Annual 1952 | 1962 | Annual 1963 |
| 1953 | Annual 1953 | 1963 | Annual 1964 |
| 1954 | Annual 1955 | 1964 | Annual 1965 |
| 1955 | Annual 1956 | 1965 | Annual 1966 |
| 1956 | Annual 1957 | 1966 | Annual 1967 |
| 1957 | Annual 1958 | 1967 | Annual 1968 |
| 1958 | Annual 1959 | 1968 | Annual 1969 |

Prior to 1933 Flood Losses and Savings were published monthly, as a rule, in the Monthly Weather Review.

[illegible]

See reference notes at end of table.

ESTIMATED FLOOD LOSSES FOR 1969

ESTIMATED FLOOD LOSSES FOR 1969

[illegible]

See reference notes at end of table.

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LOSS OF LIFE AND PROPERTY IN THE UNITED STATES FROM FLOODS

PROPERTY LOSSES IN THE UNITED STATES FROM FLOODS
BY DISTRICTS AND YEARS, 1903-1963

| District | 1903 | | 1906 | | 1907 | | 1928 | | 1929 | | 1930 | | 1931 | | 1932 | | 1933 | | 1934 | | 1935 | |
|------------------------------------|------|----------|------|----------|------|----------|-------|----------|------|----------|------|----------|------|----------|------|----------|------|----------|------|----------|------|----------|
| | Life | Property | Life | Property | Life | Property | Life | Property | Life | Property | Life | Property | Life | Property | Life | Property | Life | Property | Life | Property | Life | Property |
| Great Lakes----- | | | | 79 | 48 | 15,750 | | | | | | 171 | | | | | | | | | | |
| North Atlantic----- | | 50 | | 137 | 40 | 29,408 | | 2,105 | | | | 245 | | | | | | | | | | |
| South Atlantic----- | 2 | 2,999 | | | | 1 | 8,382 | | | | | 10,196 | | | | | | | | | | 191 |
| East Gulf----- | | 615 | | 37 | | 236 | | 2,428 | | | | 8,746 | | | | | | | | | | |
| Ohio Valley----- | 2 | | | 5,523 | | 15,639 | | 10,279 | | | | 17,050 | | | | | | | | | | 288 |
| Upper Mississippi----- | 4 | 3,983 | | 5,435 | | 19,612 | | 1,173 | | | | 3,677 | | | | | | | | | | 88 |
| Lower Mississippi----- | | 115 | | 42 | 100 | 133,858 | | 7,819 | | | | 9,980 | | | | | | | | | | 1,841 |
| Missouri----- | | | | 1,434 | | 4,880 | | 6,714 | | | | 2,118 | | | | | | | | | | 1,841 |
| Arkansas----- | | 224 | | 8,938 | 132 | 26,183 | | 4,349 | | | | 7,516 | | | | | | | | | | 2,528 |
| Red----- | | | | 155 | | 100,908 | | 153 | | | | 1,616 | | | | | | | | | | 516 |
| West Gulf----- | 8 | 1,416 | | 301 | | 208 | | 75 | | | | 8,124 | | | | | | | | | | 3,522 |
| Colorado----- | | | | 447 | | 902 | | 1,433 | | | | 175 | | | | | | | | | | 13 |
| Pacific----- | 13 | 468 | | | | | | | | | | | | | | | | | | | | 411 |
| Miscellaneous east of Rockies----- | | | | | | | | | | | | | | | | | | | | | | |
| Miscellaneous west of Rockies----- | | | | | | | | | | | | | | | | | | | | | | |
| Total----- | 36 | 9,923 | 10 | 23,468 | 423 | 347,636 | 15 | 44,611 | 89 | 68,098 | 14 | 11,800 | | | | | | | | | | |

| District | 1903 | | 1904 | | 1905 | | 1906 | | 1907 | | 1908 | | 1909 | | 1910 | | 1911 | | 1912 | | 1913 | |
|------------------------|------|----------|------|----------|------|----------|------|----------|------|----------|------|----------|------|----------|------|----------|------|----------|------|----------|------|----------|
| | Life | Property | Life | Property | Life | Property | Life | Property | Life | Property | Life | Property | Life | Property | Life | Property | Life | Property | Life | Property | Life | Property |
| Great Lakes----- | | 14 | | | | 13,185 | | | | | | 690 | | | | 240 | | | | | | |
| North Atlantic----- | 2 | 5,478 | | 142 | 32 | 16,340 | 24 | 146,035 | | 2,689 | | 37,068 | | | | 455 | | | | | | 2,519 |
| South Atlantic----- | | 29 | | 240 | | 77 | | 2,391 | | | | 989 | | | | 454 | | | | | | 5,034 |
| East Gulf----- | | 444 | | | | 719 | | 1,240 | | | | 1,655 | | | | 6,680 | | | | | | 5,497 |
| Ohio Valley----- | 2 | 7,725 | | 928 | | 8,625 | 82 | 122,296 | | 413 | | 4,485 | | | | 3,773 | | | | | | 8,077 |
| Upper Mississippi----- | 4 | 1,157 | | 1,023 | | 1,506 | | 313 | | | | 1,127 | | | | 3,659 | | | | | | 199 |
| Lower Mississippi----- | | 6,933 | | | | 6,061 | | 53 | | | | 6,657 | | | | | | | | | | |
| Missouri----- | 2 | 1,391 | | 1,906 | 125 | 38,959 | | 109 | | | | 4,333 | | | | 610 | | | | | | 1,719 |
| Arkansas----- | | 778 | | 18 | | 8,344 | | 817 | | | | 2,202 | | | | 1,79 | | | | | | 1,172 |
| Red----- | | 38 | | 640 | | 2,751 | | 16 | | | | 755 | | | | 22 | | | | | | 1,172 |
| West Gulf----- | | 1,160 | | 122 | 26 | 29,522 | 24 | 8,376 | | 1,806 | | 6,003 | | | | 360 | | | | | | 7,622 |
| Colorado----- | | | | 92 | | 557 | | 892 | | | | 254 | | | | 256 | | | | | | 189 |
| Pacific----- | 29 | 11,604 | 45 | 5,008 | | | | | | | | 9,245 | | | | 39,990 | | | | | | 8,236 |
| Total----- | 33 | 36,679 | 88 | 10,362 | 166 | 127,127 | 142 | 282,549 | 142 | 440,738 | 189 | 101,098 | | | | 101,098 | | | | | | |

| District | 1911 | | 1912 | | 1913 | | 1914 | | 1915 | | 1916 | | 1917 | | 1918 | | 1919 | | 1920 | | 1921 | |
|------------------------|------|----------|------|----------|------|----------|------|----------|------|----------|------|----------|------|----------|------|----------|------|----------|------|----------|------|----------|
| | Life | Property | Life | Property | Life | Property | Life | Property | Life | Property | Life | Property | Life | Property | Life | Property | Life | Property | Life | Property | Life | Property |
| Great Lakes----- | | | | 153 | | 9,364 | | | | | | 119 | | | | 251 | | | | | | 20,270 |
| North Atlantic----- | | 89 | | 22,321 | | 152 | | 1,926 | | | | 5,729 | | | | 8,500 | | | | | | 12,467 |
| South Atlantic----- | | 291 | | 608 | | | | 1,007 | | | | 1,172 | | | | 944 | | | | | | 1,372 |
| East Gulf----- | | 24 | | 155 | | 773 | | 2,660 | | | | 268 | | | | 2,963 | | | | | | 3,122 |
| Ohio Valley----- | | 1,322 | | 16,546 | 44 | 31,416 | | 806 | | | | 52,887 | | | | 10,914 | | | | | | 16,871 |
| Upper Mississippi----- | | 3,928 | | 5,592 | | 42,097 | | 27,031 | | | | 9,288 | | | | 8,912 | | | | | | 87,937 |
| Lower Mississippi----- | | 1,475 | | 829 | | 1,550 | | 3,601 | | | | 4,407 | | | | 2,555 | | | | | | 5,390 |
| Missouri----- | 2 | 12,019 | | 22,511 | | 62,650 | 13 | 44,616 | | | | 34,403 | | | | 8,305 | | | | | | 11,996 |
| Arkansas----- | | 13,346 | | 6,577 | 26 | 41,850 | 10 | 11,171 | | | | 15,068 | | | | 1,791 | | | | | | 18,721 |
| Red----- | | 1,855 | | 2,205 | | 44 | | 1,676 | | | | 22,209 | | | | 1,434 | | | | | | 220 |
| West Gulf----- | 14 | 5,458 | | 12,489 | | 2,589 | | 8,938 | | | | 10,987 | | | | 15,967 | | | | | | 4,604 |
| Colorado----- | 2 | 1,061 | | 310 | | 7,477 | | 575 | | | | 182 | | | | 330 | | | | | | 1,171 |
| Pacific----- | | 1,532 | | 8,872 | | | | | | | | 9,530 | | | | 2,169 | | | | | | 111,826 |
| Total----- | 47 | 39,324 | 68 | 98,307 | 107 | 199,732 | 33 | 101,079 | 50 | 165,798 | 28 | 79,813 | | | | 77,438 | | | | | | 29,000 |

| District | 1922 | | 1923 | | 1924 | | 1925 | | 1926 | | 1927 | | 1928 | | 1929 | | 1930 | | 1931 | | 1932 | |
|------------------------|------|----------|------|----------|------|-----------|------|----------|------|----------|------|----------|------|----------|------|----------|------|----------|------|----------|------|----------|
| | Life | Property | Life | Property | Life | Property | Life | Property | Life | Property | Life | Property | Life | Property | Life | Property | Life | Property | Life | Property | Life | Property |
| Great Lakes----- | | 1,619 | | 33,542 | | 131 | | 2,350 | | | | 2,654 | | | | 15,000 | | | | | | 1,327 |
| North Atlantic----- | 11 | 9,273 | | 7,149 | | 916 | | 1,222 | | | | 10,637 | | | | 7,337 | | | | | | 1,171 |
| South Atlantic----- | 3 | 291 | | 1,203 | | | | 236 | | | | 109 | | | | 546 | | | | | | |
| East Gulf----- | | 1,747 | | 1,435 | | 4,310 | | 347 | | | | 2,444 | | | | 343 | | | | | | |
| Ohio Valley----- | 7 | 4,754 | | 25,195 | | 4,889 | | 4,940 | | | | 778 | | | | 18,994 | | | | | | 17,839 |
| Upper Mississippi----- | | 406 | | 11,060 | | 71,799 | | 22,439 | | | | 5,602 | | | | 24,656 | | | | | | 388 |
| Lower Mississippi----- | | 10,020 | | 10,371 | | 5,996 | | 444 | | | | 7,857 | | | | 490 | | | | | | 865 |
| Missouri----- | 6 | 33,503 | | 35,090 | | 889,872 | | 181,335 | | | | 44,255 | | | | 11,999 | | | | | | 6,360 |
| Arkansas----- | 6 | 6,696 | | 8,494 | | 44,316 | | 2,020 | | | | 3,444 | | | | 2,965 | | | | | | 24 |
| Red----- | 2 | 365 | | 1,105 | | 2,101 | | 836 | | | | 923 | | | | 2,003 | | | | | | 250 |
| West Gulf----- | 18 | 22,462 | | 417 | | 238 | | 9,584 | | | | 34,849 | | | | 21,639 | | | | | | 3,714 |
| Colorado----- | | 155 | | | | 889 | | 76 | | | | 1,890 | | | | 2,173 | | | | | | |
| Pacific----- | 1 | 2,640 | | 37,362 | | 3,260 | | 20,251 | | | | 8,931 | | | | 2,929 | | | | | | 27,930 |
| Great Basin----- | | | | 4,127 | | | | 9,999 | | | | | | | | 5,946 | | | | | | 442 |
| Total----- | 48 | 93,941 | 91 | 176,050 | 51 | 1,028,741 | 54 | 254,064 | 40 | 122,264 | 33 | 106,842 | | | | 995,491 | | | | | | 64,688 |

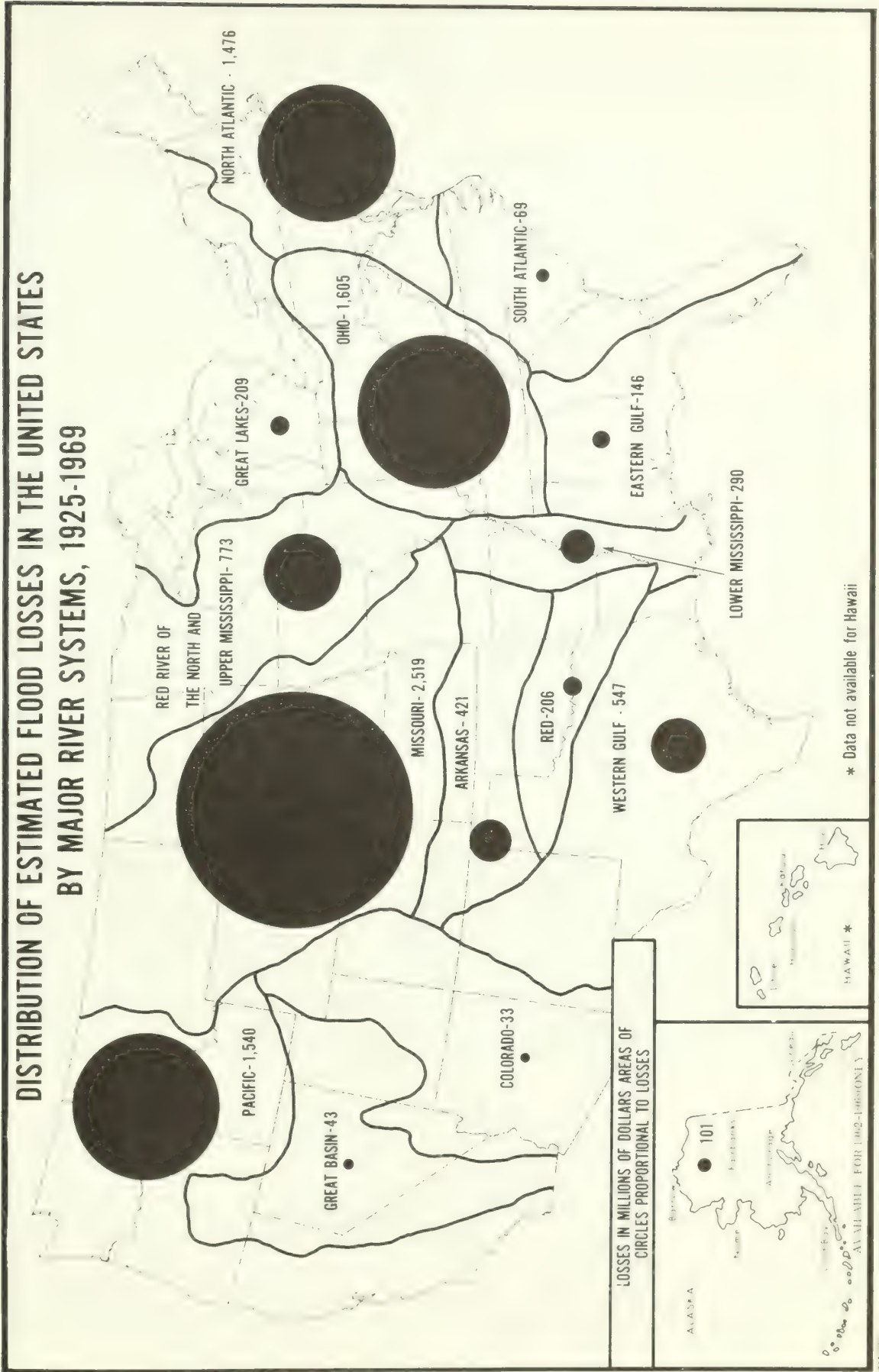
| District | 1957 | | 1958 | | 1959 | | 1960 | | 1961 | | 1962 | | 1963 | | 1964 | |
|------------------------|--------|---------|--------|---------|------|---------|-------|--------|--------|---------|------|---------|-------|---------|------|---------|
| Great Lakes----- | 1 | 1 | 10 | 12,746 | 2 | 1,942 | 1 | 216 | 8 | 35,872 | 325 | | | | | |
| North Atlantic----- | 11 | 167 | 6,952 | 15,274 | 1 | 168 | 1 | 1 | 1,325 | 11,342 | | | | | | |
| South Atlantic----- | 166 | 3,917 | 631 | 172 | 1 | 600 | 1 | 97 | 89 | 16,786 | | | | | | |
| East Gulf----- | 4,526 | 241 | 13,780 | 30,386 | 1 | 5,768 | 1 | 1,726 | 10,490 | | | | | | | |
| Ohio----- | 29 | 135,972 | 19 | 68,248 | 8 | 82,503 | 1 | 7,519 | 33,748 | 30,583 | 26 | 98,824 | 15 | 94,034 | | |
| Upper Mississippi----- | 8 | 14,648 | 20,770 | 3,427 | 2 | 12,901 | 4 | 25,320 | 9,341 | 413 | | | | | | |
| Lower Mississippi----- | 6 | 15,608 | 11,979 | 199 | 496 | 11,462 | 4 | 546 | 293 | 1,125 | | | | | | |
| Missouri----- | 13 | 26,057 | 21 | 45,819 | 3 | 12,162 | 8 | 28,105 | 7 | 33,990 | 2 | 10,501 | 3 | 14,705 | 37 | 41,902 |
| Arkansas----- | 3 | 50,082 | 1 | 360 | 2 | 12,886 | 1 | 3,480 | 1 | 9,173 | 1 | 1,254 | 2 | 1,607 | | |
| Red----- | 9 | 16,037 | 11,768 | 880 | 826 | 1,609 | 581 | 1 | 2,361 | 124 | | | | | | |
| West Gulf----- | 16 | 73,057 | 6 | 18,127 | 3 | 2,886 | 14 | 8,205 | 1 | 2,945 | 2 | 948 | 7,178 | | | |
| Colorado----- | 741 | 240 | 100 | 552 | 1 | 552 | 1 | 1,080 | 55 | | | | | | | |
| Pacific----- | 23,397 | 33,404 | 5,638 | 2 | 876 | 1 | 1,825 | 6 | 12,198 | 15,305 | 41 | 463,959 | | | | |
| Great Basin----- | 12 | 4 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Total | 82 | 36,393 | 47 | 218,255 | 23 | 147,255 | 32 | 92,976 | 32 | 154,033 | 19 | 78,237 | 39 | 175,646 | 100 | 651,642 |

LOSS OF LIFE AND PROPERTY IN THE UNITED STATES FROM FLOODS

PROPERTY LOSSES IN DOLLARS BY FLOODS
BY MONTH AND YEAR, 1902-1965

| Year | January | | February | | March | | April | | May | | June | | July | | August | | September | | October | | November | | December | | Totals |
|------|---------|----------|----------|----------|-------|----------|-------|----------|------|----------|------|----------|------|----------|--------|----------|-----------|----------|---------|----------|----------|----------|----------|----------|--------|
| | Life | Property | Life | Property | Life | Property | Life | Property | Life | Property | Life | Property | Life | Property | Life | Property | Life | Property | Life | Property | Life | Property | Life | Property | |
| 1902 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 1903 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 1904 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 1905 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 1906 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 1907 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 1908 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 1909 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 1910 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 1911 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 1912 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 1913 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 1914 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 1915 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 1916 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 1917 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 1918 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 1919 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 1920 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 1921 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 1922 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 1923 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 1924 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 1925 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 1926 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 1927 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 1928 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 1929 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 1930 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 1931 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 1932 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 1933 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 1934 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 1935 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 1936 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 1937 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 1938 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 1939 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 1940 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 1941 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 1942 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 1943 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 1944 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 1945 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 1946 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 1947 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 1948 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 1949 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 1950 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 1951 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 1952 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 1953 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 1954 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 1955 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 1956 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 1957 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 1958 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 1959 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 1960 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 1961 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 1962 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 1963 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 1964 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 1965 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 1966 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 1967 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 1968 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |

DISTRIBUTION OF ESTIMATED FLOOD LOSSES IN THE UNITED STATES BY MAJOR RIVER SYSTEMS, 1925-1969



LOSSES IN INDIVIDUAL SEVERE FLOODS IN THE UNITED STATES SINCE JULY 1902

Property Losses in Thousands of Dollars

| Date | Location | Lives
| Property |
|---------------------|--|------------|-----------|
| May-June 1903----- | Kansas, Lower Missouri, and Upper
Mississippi Rivers----- | 100 | \$ 40,000 |
| July 1908----- | Red River----- | --- | 16,200 |
| March 1912----- | Lower Mississippi River----- | --- | 70,000 |
| March 1913----- | Ohio River and tributaries----- | 467 | 147,000 |
| December 1913----- | Texas rivers----- | 177 | 9,000 |
| June 1915----- | Kansas River----- | --- | 5,950 |
| August 1916----- | Rivers of the Carolinas----- | --- | 21,700 |
| June 1921----- | Arkansas River in State of Colorado----- | 120 | 25,000 |
| September 1921----- | Texas rivers----- | 215 | 19,000 |
| October 1923----- | Lower Arkansas, including the State
of Oklahoma----- | --- | 15,000 |
| March 1924----- | Potomac River----- | --- | 6,000 |
| Spring of 1927----- | Mississippi Valley----- | 313 | 284,118 |
| November 1927----- | New England rivers----- | 88 | 45,578 |
| December 1933----- | Columbia River and tributaries----- | --- | 10,000 |
| May 1935----- | Rivers in eastern Colorado----- | --- | 6,000 |
| May-June 1935----- | Republican and Kansas Rivers----- | 110 | 18,000 |
| July 1935----- | Lower Missouri River----- | --- | 10,000 |
| December 1935----- | Upper Susquehanna tributaries----- | 52 | 26,000 |
| March-April 1936--- | Houston, Texas area----- | --- | 2,500 |
| Jan.-Feb. 1937----- | Rivers in eastern United States----- | 107 | 270,000 |
| December 1937----- | Ohio and lower Mississippi River basins--- | 137 | 417,685 |
| March 1938----- | Sacramento Valley----- | --- | 7,100 |
| September 1938----- | Streams in southern California----- | 79 | 24,500 |
| July 1939----- | Rivers in New England----- | --- | 37,000 |
| Feb.-Mar. 1940----- | Licking and Kentucky Rivers----- | 78 | 1,715 |
| August 1940----- | Sacramento Valley----- | --- | 6,700 |
| Oct.-Nov. 1941----- | Rivers in southern Virginia, the Carolinas,
and eastern Tennessee----- | 40 | 12,000 |
| April-June 1942---- | Arkansas River basin----- | --- | 8,500 |
| May 1942----- | Upper Mississippi, Missouri, Arkansas, Red,
and Trinity River basins----- | --- | 44,350 |
| July 1942----- | Delaware & Susquehanna River basins----- | 33 | 13,000 |
| Nov.-Dec. 1942----- | Upper Allegheny River and Sennemahoning
Creek basins----- | 15 | 10,000 |
| Dec. 1942-Jan. 1943 | Willamette River----- | 10 | 6,900 |
| Apr.-June 1943----- | Ohio River----- | --- | 10,540 |
| August 1943----- | Maumee, Wabash, upper Mississippi,
Missouri, White, and Arkansas River
basins----- | 60 | 172,500 |
| April-June 1944---- | Little Kanawha----- | 23 | 1,300 |
| Feb.-Mar. 1945----- | Upper Mississippi, Missouri, Arkansas, Red,
lower Mississippi Basins and east Texas
Streams----- | 17 | 82,000 |
| Feb.-Apr. 1945----- | Ohio River----- | 18 | 30,000 |
| Mar.-July 1945----- | Trinity and Sabine Rivers----- | --- | 9,000 |
| July 1945----- | Lower Mississippi River----- | --- | 9,500 |
| December 1945----- | Lake Section of Rensselaer County, N. Y.--- | --- | 3,500 |
| January 1946----- | Willamette River----- | --- | 6,000 |
| September 1946----- | Cumberland River----- | --- | 3,925 |
| December 1946----- | San Antonio and Nueces Rivers----- | --- | 6,050 |
| April 1947----- | Willamette River----- | --- | 5,525 |
| May-July 1947----- | Allegheny----- | --- | 4,319 |
| June 1947----- | Rivers in middle West in the lower Missouri
and middle Mississippi River basins----- | 29 | 235,000 |
| Apr.-May 1948----- | East Creek at Rutland, Vt.----- | --- | 2,000 |
| May-June 1948----- | Red River of North and tributaries----- | --- | 18,700 |
| June-July 1948----- | ¹ Columbia Basin----- | 35 | 101,725 |
| December 1948----- | Arkansas River and minor tributaries----- | --- | 14,500 |
| May 1949----- | Housatonic River----- | --- | 4,200 |
| June 1949----- | Trinity River----- | 10 | 14,000 |
| Apr.-May 1950----- | Shenandoah and Potomac Rivers----- | 11 | 8,850 |
| June 1950----- | ² Red River of North----- | --- | 33,000 |
| Nov.-Dec. 1950----- | Central West Virginia----- | 31 | 4,020 |
| | Central Valleys of California and
western Nevada----- | --- | 23,000 |

LOSSES IN INDIVIDUAL SEVERE FLOODS IN THE UNITED STATES SINCE JULY 1902-Cont'd

Property Losses in Thousands of Dollars

| Date | Location | Lives
| Property |
|---------------------|--|------------|-----------|
| April 1951----- | Upper Mississippi Basin----- | --- | \$ 18,622 |
| June-July 1951---- | ³ Kansas-Missouri----- | 28 | 923,224 |
| April 1952----- | ⁴ Red River of the North-upper Mississippi-
Missouri River basins----- | 11 | 198,000 |
| May 1952----- | Great Basin----- | --- | 8,373 |
| March 1953----- | New England States----- | --- | 10,000 |
| Apr.-May 1953----- | Louisiana-Texas----- | 12 | 38,959 |
| June 1953----- | Northwestern Iowa----- | 14 | 32,950 |
| June 1954----- | Middle Rio Grande and lower Pecos----- | 16 | 19,079 |
| October 1954----- | Pecos River in New Mexico----- | 13 | 1,783 |
| March 1955----- | Ohio Basin----- | 15 | 14,396 |
| August 1955----- | ⁵ Hurricane floods in Northeast----- | 187 | 714,079 |
| December 1955----- | ⁶ West Coast----- | 61 | 154,532 |
| May-June 1956----- | ⁷ Columbia and Kootenai Rivers----- | --- | 14,025 |
| Jan.-Feb. 1957----- | ⁸ Streams in southeastern Kentucky, south-
western West Virginia, adjoining
portions of Tennessee and Virginia----- | 14 | 58,000 |
| February 1957----- | SNAKE River and tributaries----- | --- | 20,500 |
| Apr.-June 1957----- | Streams in Texas, Arkansas, Kansas,
Louisiana, Missouri and Oklahoma----- | 18 | 105,000 |
| June-July 1957----- | Wabash River and tributaries----- | --- | 63,000 |
| June 1958----- | White and Wabash Rivers----- | --- | 57,000 |
| July 1958----- | Flash flood on East Nishnabotna River in
Iowa----- | 19 | 5,850 |
| January 1959----- | Ohio River basin----- | --- | 81,921 |
| January 1959----- | Lake Erie drainage in Ohio and New York----- | --- | 11,265 |
| Mar.-Apr. 1960----- | ⁹ Snowmelt floods in the Missouri and upper
Mississippi Basins----- | --- | 34,466 |
| Feb.-Mar. 1961----- | East Gulf of Mexico drainage----- | --- | 13,997 |
| July 1961----- | Flash flood on small streams in
Charleston, W. Va.----- | 22 | 3,238 |
| September 1961----- | Kansas-Missouri----- | --- | 23,557 |
| Feb.-Mar. 1962----- | Kentucky----- | --- | 16,067 |
| Feb.-Mar. 1962----- | Southeastern Idaho----- | --- | 6,318 |
| March 1963----- | Ohio River basin----- | 26 | 97,600 |
| June 1964----- | Montana----- | 31 | 54,279 |
| December 1964----- | California and Oregon----- | 40 | 415,832 |
| March 1964----- | Ohio River basin----- | 13 | 81,602 |
| Mar.-May 1965----- | ¹⁰ Upper Mississippi, Missouri, and Red of
North Basins----- | 16 | 181,325 |
| May 1965----- | Brazos River----- | --- | 30,802 |
| June 1965----- | South Platte Basin----- | 16 | 415,076 |
| June 1965----- | Sanderson, Texas flash flood----- | 26 | 2,715 |
| June 1965----- | Arkansas Basin----- | 16 | 58,340 |
| January 1966----- | Streams in Humboldt County, Calif.----- | --- | 6,850 |
| Apr.-May 1966----- | Sabine and Trinity Basins, Texas----- | 14 | 20,100 |
| December 1966----- | Tulare and Buena Vista Lakes drainages in
California----- | --- | 11,712 |
| June 1967----- | Platte River and tributaries in Nebraska----- | --- | 35,275 |
| September 1967----- | Hurricane "Beulah" floods in Texas----- | --- | 98,239 |
| August 1967----- | Tanana and Chena Rivers in Alaska----- | --- | 98,550 |
| March 1968----- | Rivers in New England (except Maine)----- | --- | 45,000 |
| May 1968----- | Rivers in northern New Jersey----- | --- | 166,690 |
| Jan.-Feb. 1969----- | Floods in state of California----- | 60 | 399,233 |
| Mar.-Apr. 1969----- | ¹¹ Snowmelt Floods in upper midwest----- | --- | 151,000 |
| July 1969----- | Northern Ohio----- | 30 | 87,915 |
| August 1969----- | ¹² James River basin in Virginia----- | 153 | 116,000 |

Loss of life carried only where ten or more.

References

1. Monthly Weather Review, January 1949
2. Monthly Weather Review, September 1951
3. Technical Paper No. 17
4. Technical Paper No. 23
5. Technical Paper No. 26
6. Climatological Data, National Summary, December 1955
7. Climatological Data, National Summary, Annual 1956
8. Climatological Data, National Summary, January 1957
9. Technical Paper No. 45
10. Technical Report NO. WB-3
11. NOAA Technical Report No. 13
12. Climatological Data, National Summary, August 1969

FLOOD DAMAGE ESTIMATES BY STATES

1950-1969

11,111 Losses in Thousands 3 to 11 Bars

| States | 1959 | 1956 | 1957 | 1958 | 1959 | 1960 | 1961 | 1962 | 1963 | 1964 | 1965 | 1966 | 1967 | 1968 | 1969 |
|--------------|---------|--------|---------|---------|---------|--------|---------|--------|---------|---------|---------|---------|---------|---------|---------|
| Alaska..... | 3,379 | 720 | 2,324 | 872 | - | 670 | 12,625 | 5,329 | 1,280 | 5,541 | 723 | 5,506 | 1,695 | 108 | 88 |
| Alaska..... | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Alabama..... | 226 | 255 | 27,938 | 9,262 | 1,100 | 580 | 325 | 4,100 | 2,500 | 5 | 11,330 | 3,950 | 98,550 | 188 | 1,111 |
| Alabama..... | 61 | 8,745 | 13 | 33,063 | 3,090 | 516 | 3,503 | 92 | 11,854 | 229,168 | 11,321 | 21,547 | 1,497 | 21,096 | 123,206 |
| Alabama..... | 163,767 | - | - | - | 1 | - | 95 | 2,789 | - | - | - | - | 1,370 | - | - |
| Alaska..... | 2,367 | 5,139 | 2,901 | 240 | - | - | - | 80 | 30 | - | 452,293 | 707 | - | - | 66 |
| Alaska..... | 379,360 | - | - | - | - | 750 | - | - | - | - | - | - | - | 100 | 628 |
| Alaska..... | 117 | 31 | - | 60 | - | - | - | - | - | - | - | - | - | - | - |
| Alaska..... | 105 | 1,894 | - | - | 150 | 12,047 | 317 | 1,481 | - | 126 | 144 | 548 | 95 | 16 | 2,808 |
| Alaska..... | 1 | 212 | 1,068 | 323 | - | 392 | 3,236 | - | 443 | 3,641 | 397 | 1,628 | 23 | 133 | 79 |
| Alaska..... | 1,371 | 6,222 | 29,896 | 400 | - | - | - | - | 2,300 | - | - | - | 1,029 | 2,500 | 111 |
| Alaska..... | 102 | 1,026 | 1,206 | 3 | 500 | 7,505 | 939 | 8,112 | 2,766 | 11,704 | 1,184 | - | 792 | 2,576 | 9,099 |
| Alaska..... | 1,003 | 4,021 | 66,748 | 52,302 | 12,958 | 2,649 | 13,306 | 670 | 8,266 | 3,044 | 30,564 | 3,998 | 2,629 | 22,463 | 6,672 |
| Alaska..... | 35 | 51 | 1,543 | 7,508 | 128 | 7,612 | 9,389 | 6,778 | 70 | 240 | 32,162 | 904 | 4,416 | 1,650 | 6,233 |
| Alaska..... | 474 | 33 | 9,164 | 4,606 | 4,061 | 1,947 | 13,397 | 1,826 | 168 | 370 | 29,792 | 97 | 13,093 | 2,304 | 10,991 |
| Alaska..... | 6,629 | 568 | 55,233 | 3,817 | 2,480 | 12,969 | 16,885 | 16,885 | 36,917 | 35,376 | 1,044 | 1,671 | 17,583 | 6,036 | 8,075 |
| Alaska..... | 30 | - | 4,147 | 2,842 | 61 | 112 | 6,074 | 1,908 | - | 30 | - | 250 | 45 | 2,810 | 251 |
| Alaska..... | - | - | - | - | - | - | 800 | - | - | - | - | 528 | - | - | 300 |
| Alaska..... | 5,450 | 837 | - | 10 | - | - | - | - | - | - | 53 | - | 125 | 35,000 | 200 |
| Alaska..... | 155,982 | 1,278 | - | - | - | 6,400 | - | - | - | - | - | - | - | 100 | 13 |
| Alaska..... | - | 1,270 | 9,128 | 17 | 50 | 1,481 | 552 | 1,290 | 26 | - | 97,403 | 4,300 | - | 1,197 | 67,168 |
| Alaska..... | 3,132 | 2,693 | 2,693 | 13,826 | 280 | 744 | 15,918 | 1,982 | 19 | 3,152 | 1,931 | 2,706 | 1,192 | 6,269 | 1,900 |
| Alaska..... | 666 | 167 | 9,618 | 38,718 | 6,018 | 13,506 | 27,375 | 557 | 152 | 6,591 | 33,976 | 2,781 | 39,080 | 890 | 36,601 |
| Alaska..... | 63 | 317 | 33 | 1 | 82 | 57 | 147 | 147 | 147 | 54,389 | 253 | - | 2,947 | 388 | 388 |
| Alaska..... | 1,500 | 865 | 5,983 | 3,064 | 3,753 | 8,884 | 674 | 2,630 | 13,394 | 5,146 | 1,368 | 11,628 | 40,641 | 6,029 | 1,826 |
| Alaska..... | 7,398 | 237 | - | - | 4,500 | 100 | 891 | 762 | 2,858 | 2,454 | 4 | 307 | 1 | 1 | 1 |
| Alaska..... | - | - | - | - | - | - | - | - | - | - | - | - | - | 800 | 100 |
| Alaska..... | 23,102 | - | - | 3 | - | - | - | - | - | - | - | - | - | 166,690 | 580 |
| Alaska..... | 1,066 | - | - | - | - | - | - | - | 620 | 1,235 | 4,833 | 1,048 | - | - | 3,383 |
| Alaska..... | 30,072 | 1,089 | 166 | 42 | 5,667 | 7,229 | 608 | - | 33,102 | 3,275 | - | - | 777 | - | 1,338 |
| Alaska..... | 625 | 831 | 788 | 3,201 | 506 | 100 | 1,400 | - | - | 15,316 | 88 | 198 | 1,168 | - | 1,038 |
| Alaska..... | - | - | 100 | - | 28 | 136 | - | - | - | - | 5,192 | 9,700 | - | - | 37,436 |
| Alaska..... | 753 | 1,056 | 7 | 4,867 | 54,840 | 191 | 1,217 | 6,512 | 22,359 | 28,039 | - | 1,833 | 6,622 | 20,074 | 87,916 |
| Alaska..... | 977 | 35,665 | 35,665 | 1,169 | 8,907 | 2,638 | 2,483 | 792 | 2,413 | 798 | 2,508 | 12 | 762 | 3,021 | 762 |
| Alaska..... | 9,515 | 6,376 | 310 | 363 | 20 | 360 | 757 | 1,550 | 299 | 187,101 | 5,679 | 2,283 | 1,044 | 538 | 938 |
| Alaska..... | 141,381 | 7,199 | 1,048 | 3,592 | 21,109 | 3,072 | 612 | 1,115 | 5,397 | 16,938 | - | 7,705 | 7,251 | 421 | 3,310 |
| Alaska..... | 28,830 | - | - | - | - | - | - | - | - | - | - | - | 588 | 9,000 | 237 |
| Alaska..... | 74 | - | 60 | 680 | 122 | 72 | 369 | 97 | 89 | 1,809 | 268 | 140 | 579 | - | 625 |
| Alaska..... | 11 | 10 | 3,969 | 128 | - | 3,417 | 1 | 3,030 | 740 | 740 | 740 | 470 | 1,125 | 123 | 31,898 |
| Alaska..... | 977 | 279 | 5,118 | 198 | - | 2,263 | 2,263 | 651 | 6,262 | 156 | 2,472 | 1,690 | 1,090 | 648 | 1,090 |
| Alaska..... | 5,163 | 3,715 | 78,861 | 18,101 | 2,886 | 8,093 | 2,846 | 1,948 | 20 | 5,435 | 39,393 | 28,001 | 98,259 | 24,267 | 12,878 |
| Alaska..... | 226 | 210 | 169 | 10 | 4 | - | 281 | 1,272 | 64 | 70 | 1,746 | 1,577 | 453 | 1,260 | 237 |
| Alaska..... | - | - | 3 | - | - | - | - | - | - | 692 | - | - | - | 100 | 680 |
| Alaska..... | 10,695 | - | 139 | - | 28 | 211 | - | - | 5,937 | 11,817 | 2 | - | 581 | 611 | 123,552 |
| Alaska..... | 1,165 | 6,472 | 1,664 | 50 | 4,914 | 130 | 231 | - | 1,013 | 1,013 | 1,012 | 582 | 1,910 | 47 | 2,722 |
| Alaska..... | 5,187 | 3,185 | 11,052 | 1,170 | 709 | 370 | 3,455 | 5,914 | 17,624 | 4,169 | 14,067 | 1,868 | 14,235 | 47 | 5,996 |
| Alaska..... | 50 | 335 | - | - | 1,791 | 996 | 1,442 | 57 | 142 | 138 | 390 | 361 | - | - | 4,763 |
| Alaska..... | 200 | 11 | 526 | 3 | - | - | - | - | 899 | - | - | - | 1,096 | - | - |
| Alaska..... | 995,491 | 64,688 | 360,303 | 218,255 | 141,255 | 92,976 | 154,033 | 75,237 | 177,946 | 651,642 | 788,046 | 117,004 | 375,218 | 339,399 | 900,654 |
| TOTAL | | | | | | | | | | | | | | | |

*Major Flood in May 1956

**Major Flood in June 1961

***Ice Jam Flooding May 1962

****Serious Flooding June 1962

GENERAL SUMMARY OF RIVER AND FLOOD CONDITIONS

YEAR 1970

Elmer R. Nelson, Office of Hydrology

The most significant floods in the nation during 1970 occurred in the Sacramento Basin in California during January and in the Colorado Basin in Arizona during September.

The largest rise in the Sacramento Basin occurred in the upper portion at Ord Ferry, Calif., where the warning stage was exceeded by over 9 ft. Early warnings by the National Weather Service permitted evacuation of all people and farming equipment from the Yolo Bypass islands before they were flooded. The total damages in the Sacramento Basin were estimated in excess of \$25 million and the loss of life in excess of 20.

Unprecedented flash floods occurred during September in the Colorado Basin in the central mountains of Arizona. The flooding in central Arizona was of record proportions. At least 23 persons lost their lives in the severe flash floods. The property damage was estimated at \$5 million.

Major floods occurred in Puerto Rico during October. This was one of the most severe natural disasters to strike the island. At least 17 people lost their lives. The property damage was estimated at \$62 million.

This report contains a brief summary, by months, of the most significant flooding during 1970. A detailed summary of the flooding during 1970 appears in the monthly issues of this publication.

January

The most damaging floods during January occurred in the Sacramento Basin in California. River levels reached on the Sacramento were the highest since the construction of Shasta Dam and natural flows may have been the highest since records began. The damages as estimated by the Corps of Engineers were in excess of \$25 million. The death toll from the high water was in excess of 20.

February

Agricultural land in the bypass area in the Sacramento Basin in California remained flooded during February as flow into the bypass systems continued most of the month. Ice jams caused minor flooding in western New York, northern Ohio, southeast Nebraska and western Pennsylvania. No major flooding was reported during February and flood damages were mostly minor.

March

The most damaging floods during March occurred in the Tombigbee Basin in Mississippi and Alabama. Preliminary estimates of damage by the Corps of Engineers was placed at \$3.3 million. Moderate flooding occurred over the lower half of the Alabama Basin. The Cahaba River reached its highest flood level since 1961.

Flash floods occurred on small streams in northern Georgia, Alabama and Mississippi. The Geological Survey reported that the flash floods on some small streams in Alabama exceeded those likely to occur on the average of only once in 50 years. Two deaths were attributed to the flash flooding in northeastern Mississippi.

April

The most extensive flooding during April occurred

in the Arkansas Basin. Most tributary streams experienced some flooding. Bird Creek in Oklahoma crested at its highest level since 1966. Crests along the Arkansas River at Van Buren, Ark., were the highest since 1961 and at Ralston and Ponca City, Okla., the highest since 1964. At least two persons drowned in the high water. Considerable damage resulted to growing crops.

Damaging floods occurred in the Tombigbee Basin in Mississippi and Alabama for the second consecutive month. Damage was rather extensive and slightly higher than in March as crops were further advanced.

May

Severe flash floods occurred during May in southeastern Minnesota and in south-central Texas. Flood damages were estimated at several million dollars and lives lost at five. The flooding at San Marcos, Tex., was the worst in its history. Other flash floods were reported in northwest Iowa, southwestern North Dakota and northeastern Oklahoma.

Extensive flooding occurred on small streams in Missouri and Illinois during May. The Vermilion River at Pontiac, Ill., reached the second highest stage of record since 1942. A near record crest occurred on the Illinois River at La Salle, Ill.

Moderate to severe flooding occurred in streams in the Kansas River Basin. The flooding on the upper Soldier Creek was described as the highest in memory of residents. The Petite Saline River at Boonville, Mo., crested at a record stage.

The Des Lac River in the Souris Basin in North Dakota exceeded the previous record stage at Foxholm, N. Dak. Crests along the main stem of the Red River of the North were generally 3.5 ft. lower than in 1969, except at Grand Forks, N. Dak., where it was 11.3 ft. lower.

The Geological Survey reported that the peak discharges of some streams in eastern Idaho and northern Kansas exceeded those likely to occur on the average of once in 50 years.

June

Moderate to severe flooding occurred on the lower Choctawhatchee and Yellow Rivers in Florida and on the Conecuh River in Alabama during June. The flooding on the Yellow River was the most severe on record. Heavy flooding occurred in the upper Smoky Hill Basin in Kansas. The crest at Ellsworth, Kans., was the highest since 1951. Heavy damages resulted from the flooding in the Red River of the North Basin in northwestern Minnesota.

The worst flood since May 1950 occurred in northeastern Minnesota along the Little Fork River at Cook, Minn., on June 10-15. Eighty percent of the village was inundated. The area was declared a disaster area by the U. S. Small Business Administration as 10 businesses and 15 homes sustained major damage.

July

The most damaging floods during July were the flash flood variety resulting from severe thunderstorm activity. These floods occurred mostly on creeks and small streams in the northeastern and western states.

The largest loss of life reported was in a flooded

GENERAL SUMMARY OF RIVER AND FLOOD CONDITIONS-Continued

YEAR 1970

arroya near Tucson, Ariz., where four people were drowned.

The Geological Survey reported that flows were below normal in large parts of the Southeast and the mid-continent and western parts of Oregon and Washington. Minimum monthly or daily mean discharges were lowest of record for July on some streams in South Carolina, Mississippi, Louisiana and Washington.

August

The most damaging floods during August occurred in the Yadkin-Pee Dee Basin in the Carolinas. It was the highest and most extensive flooding in the Yadkin Basin since 1940. The Pee Dee River at Cheraw, S. C., reached its highest stage since 1966. The total damages were estimated at nearly \$2 million.

September

Unprecedented flash floods occurred during September in the central mountains of Arizona and in the four corners area of Utah, Colorado, Arizona and New Mexico. The flooding in central Arizona was of record proportions. Of the 23 lives lost, 14 died attempting to flee the camp ground just below the Mogollon Rim, about 30 miles northeast of Payson, Arizona. The heavy loss of life, the magnitude of the flooding and the devastation resulting from the unprecedented rains made the Labor Day week end calamity the greatest natural disaster in the history of the state of Arizona. Damage from the flooding was estimated at over \$5 million.

The Geological Survey reported that the recurrence intervals of flood peaks at many gaging stations in Arizona ranged from 20 to 100 years with indications that some might approach 200 years. Most stream flows in the San Juan River were the greatest since 1927.

October

Major floods occurred in the eastern two-thirds of Puerto Rico during the early part of October. This flood was one of the most severe natural disasters to strike Puerto Rico during modern times. It was comparable to some of the famous severe weather disasters that have affected Puerto Rico in recorded history,

including the notorious hurricane disasters of Sept. 13, 1928 and Aug. 8, 1899, known as the San Felipe and San Ciriaco hurricanes. The total property damage was estimated at \$62 million. At least 17 people lost their lives due to mud slides and the floods.

The most significant flooding in continental United States during October were the flash floods in the French Broad Basin in North Carolina. The flooding was the most severe on the Middle Fork and East Fork French Broad River and on Catheys Creek. The flooding on the French Broad River was generally comparable to the floods of 1964, 1966 and 1967. The principal damage was to public roads and bridges and to farm property, fences, ditches, field roads and land. The damage to crops was generally light.

November

Damaging flash floods occurred during November in south-central Pennsylvania. Significant damage resulted along the Frankstown Branch in Blair County and Rays-town Branch in Bedford County. At least \$100,000 in damage was reported to private property; state, county and township roads; and bridges.

Heavy rain in southern California caused flooding and mud slides in some foothill and canyon areas. Several autos were damaged by flood waters and a few homes on low ground were inundated by mud and water. Three deaths resulted from drowning.

December

Flooding occurred along the North Coast of Puerto Rico as far west as Arecibo during December. The flooding was the most severe in the community of Vega Baha where low lying areas were inundated by the Rio Cibuco.

The most significant flooding in the continental United States during December occurred in the Pacific Slope Drainage. The lower Russian River crested 4.5 to 7.3 ft. above flood stage, with damages estimated at \$244,000. The total flood damages in the Willamette Basin in Oregon, were estimated at \$492,000. The Chehalis River at Centralia, Wash., exceeded flood stage twice during December. The first crest which was 4.3 ft. above flood stage caused widespread overflow of lowlands and roads.

SOLAR RADIATION TOTALS

Average daily values (direct and diffuse) received
on a horizontal surface, tabulated in langleys

YEAR 1970

| Station | January | February | March | April | May | June | July | August | September | October | November | December | Annual |
|------------------------|---------|----------|-------|-------|-----|------|------|--------|-----------|---------|----------|----------|--------|
| ALBUQUERQUE, N.M. | 233 | 226 | 481 | 672 | 725 | 759 | 699 | 581 | 539 | 400 | 324 | 268 | 505 |
| AMES, IOWA | 174 | 285 | 305 | 468 | 435 | 531 | 529 | 443 | 317 | 111 | 127 | 111 | 400 |
| ANN ARBOR, MICH. | 189 | 102 | 181 | 383 | 384 | 454 | 375 | 317 | 229 | 41 | 60 | 11 | 180 |
| ARAD, ROMANIA | 289 | 181 | 377 | 823 | 601 | 587 | 418 | 386 | 307 | 356 | 366 | 262 | 800 |
| ARGONNE NAT. LAB. | 182 | 259 | 382 | 498 | 688 | 502 | 527 | 411 | 300 | 200 | 180 | 181 | 180 |
| ASTORIA, OREGON | 84 | 288 | 306 | 357 | 483 | 565 | 563 | 463 | 380 | 219 | 100 | 62 | 311 |
| ATLANTA, GEORGIA | 183 | 325 | 348 | 442 | 588 | 583 | 518 | 440 | 276 | 108 | 157 | 157 | 441 |
| BARTON, ALASKA | 1 | 17 | 17 | 348 | 417 | 516 | 229 | 41 | 41 | 41 | 41 | 41 | 41 |
| BETHEL, ALASKA | 44 | 79 | 84 | 352 | 466 | 512 | 324 | 161 | 244 | 117 | 117 | 117 | 117 |
| BISMARCK, N.DAK. | 187 | 188 | 392 | 437 | 506 | 693 | 670 | 594 | 394 | 262 | 180 | 180 | 180 |
| BLUE HILL, MASS. | 183 | 227 | 281 | 421 | 481 | 481 | 513 | 414 | 300 | 193 | 180 | 97 | 300 |
| BROOKS, ALASKA | 183 | 248 | 351 | 483 | 481 | 481 | 686 | 641 | 411 | 137 | 115 | 115 | 308 |
| BROOKINGS, SOUTH DAK. | 225 | 264 | 330 | 364 | 442 | 539 | 540 | 431 | 340 | 213 | 143 | 144 | 330 |
| BROWNSVILLE, TEXAS | 225 | 141 | 464 | 539 | 486 | 506 | 486 | 621 | 400 | 180 | 180 | 180 | 466 |
| BURLINGTON, VERMONT | 157 | 211 | 294 | 374 | 391 | 476 | 429 | 496 | 323 | 180 | 121 | 121 | 300 |
| CAMP HAMILTON, N.Y. | 278 | 408 | 288 | 468 | 572 | 565 | 529 | 425 | 341 | 310 | 285 | 285 | 387 |
| CARIBOU, MAINE | 184 | 248 | 362 | 481 | 413 | 521 | 533 | 454 | 261 | 213 | 123 | 133 | 324 |
| CHARLESTON, S.C. | 227 | 347 | 367 | 484 | 481 | 570 | 534 | 446 | 307 | 244 | 200 | 246 | 324 |
| CLEVELAND, OHIO | 142 | 223 | 281 | 381 | 411 | 527 | 511 | 505 | 380 | 222 | 180 | 180 | 317 |
| COLUMBIA, MISSOURI | 173 | 211 | 281 | 381 | 411 | 527 | 511 | 505 | 380 | 222 | 180 | 180 | 317 |
| DAVIS, CALIFORNIA | 184 | 290 | 311 | 411 | 481 | 699 | 738 | 671 | 544 | 381 | 199 | 151 | 461 |
| DODGE CITY, KANSAS | 231 | 362 | 392 | 566 | 637 | 614 | 633 | 567 | 444 | 286 | 254 | 254 | 434 |
| E. LANSING, MICHIGAN | 160 | 284 | 314 | 441 | 481 | 568 | 500 | 519 | 311 | 238 | 114 | 114 | 339 |
| EL CENTRO, CALIF. NPF | 275 | 370 | 492 | 617 | 672 | 687 | 617 | 511 | 534 | 411 | 307 | 244 | 482 |
| EL PASO, TEXAS | 357 | 386 | 524 | 617 | 617 | 688 | 656 | 603 | 480 | 413 | 364 | 364 | 516 |
| ELY, NEVADA | 222 | 123 | 404 | 528 | 584 | 616 | 592 | 581 | 526 | 380 | 180 | 214 | 433 |
| EMERY, NEVADA | 174 | 237 | 321 | 488 | 462 | 463 | 488 | 476 | 374 | 246 | 142 | 133 | 326 |
| FAIRBANKS, ALASKA | 24 | 67 | 191 | 354 | 521 | 490 | 465 | 321 | 288 | 12 | 12 | 12 | 12 |
| FLAMING GORGE, UTAH | 281 | 313 | 371 | 441 | 480 | 639 | 559 | 401 | 477 | 323 | 206 | 206 | 417 |
| FORT WORTH, TEXAS | 247 | 291 | 337 | 410 | 561 | 608 | 603 | 563 | 452 | 328 | 302 | 240 | 417 |
| FRESNO, CALIFORNIA | 192 | 302 | 441 | 596 | 600 | 697 | 696 | 511 | 554 | 381 | 246 | 266 | 471 |
| GAINESVILLE, FLORIDA | 258 | 354 | 308 | 484 | 571 | 526 | 503 | 429 | 462 | 388 | 364 | 267 | 417 |
| GENEVA, NEW YORK | 152 | 218 | 264 | 385 | 468 | 467 | 484 | 412 | 278 | 184 | 84 | 84 | 317 |
| GLASGOW, MONTANA | 168 | 238 | 316 | 391 | 517 | 621 | 616 | 567 | 380 | 242 | 126 | 131 | 360 |
| GRAND JUNCTION, COLO. | 213 | 346 | 387 | 665 | 665 | 665 | 665 | 665 | 665 | 665 | 665 | 665 | 665 |
| GREAT FALLS, MONTANA | 141 | 187 | 317 | 419 | 545 | 641 | 641 | 600 | 391 | 277 | 180 | 178 | 375 |
| GREENSBORO, N.C. | 209 | 269 | 312 | 411 | 495 | 483 | 416 | 374 | 234 | 227 | 198 | 198 | 333 |
| INDIANAPOLIS, INDIANA | 185 | 246 | 265 | 387 | 493 | 495 | 498 | 450 | 350 | 246 | 115 | 133 | 333 |
| INYO, CALIFORNIA | 244 | 188 | 488 | 685 | 685 | 685 | 685 | 600 | 531 | 380 | 380 | 380 | 380 |
| ITHACA, NEW YORK | 82 | 227 | 328 | 481 | 522 | 542 | 518 | 526 | 381 | 273 | 273 | 273 | 273 |
| LAKE CHARLES, LA. | 224 | 242 | 480 | 462 | 502 | 585 | 585 | 474 | 393 | 360 | 297 | 245 | 417 |
| LAKELAND, FLORIDA | 278 | 388 | 400 | 544 | 562 | 641 | 641 | 454 | 443 | 388 | 352 | 314 | 417 |
| LANDER, WYOMING | 215 | 311 | 408 | 480 | 585 | 642 | 598 | 547 | 433 | 337 | 205 | 195 | 417 |
| LARAMIE, WYOMING | 179 | 274 | 357 | 482 | 541 | 622 | 566 | 491 | 411 | 311 | 111 | 111 | 311 |
| LAS VEGAS, NEVADA | 254 | 332 | 480 | 606 | 691 | 699 | 577 | 577 | 577 | 577 | 577 | 577 | 577 |
| LEXINGTON, KENTUCKY | 181 | 223 | 241 | 416 | 539 | 500 | 493 | 445 | 311 | 211 | 111 | 111 | 311 |
| LITTLE ROCK, ARKANSAS | 221 | 255 | 260 | 416 | 545 | 559 | 488 | 476 | 374 | 246 | 221 | 166 | 354 |
| LOS ANGELES, CALIF. | 204 | 345 | 456 | 618 | 603 | 608 | 488 | 592 | 510 | 341 | 254 | 227 | 449 |
| LOS ANGELES, CALIF. U | 204 | 345 | 456 | 618 | 603 | 608 | 488 | 592 | 510 | 341 | 254 | 227 | 449 |
| MADISON, WISCONSIN | 198 | 287 | 317 | 430 | 488 | 577 | 562 | 511 | 340 | 239 | 134 | 142 | 358 |
| MANHATTAN, KANSAS | 184 | 268 | 278 | 413 | 490 | 447 | 528 | 429 | 300 | 188 | 149 | 181 | 323 |
| MATANUSKA, ALASKA | 34 | 62 | 167 | 323 | 485 | 446 | 421 | 307 | 217 | 102 | 38 | 16 | 218 |
| MEDFORD, OREGON | 184 | 268 | 278 | 413 | 490 | 447 | 528 | 429 | 300 | 188 | 149 | 181 | 323 |
| MIAMI, FLORIDA | 340 | 392 | 476 | 620 | 614 | 488 | 725 | 488 | 488 | 297 | 132 | 88 | 488 |
| MIDLAND, TEXAS | 303 | 332 | 476 | 534 | 676 | 652 | 648 | 602 | 481 | 411 | 359 | 276 | 417 |
| NASHVILLE, TENNESSEE | 191 | 222 | 292 | 429 | 565 | 512 | 559 | 494 | 411 | 268 | 178 | 159 | 359 |
| NEW YORK, N.Y. U | 164 | 222 | 304 | 431 | 441 | 470 | 468 | 464 | 362 | 236 | 137 | 126 | 319 |
| NORTH OMAHA, NEBRASKA | 210 | 300 | 347 | 424 | 524 | 541 | 470 | 504 | 373 | 255 | 157 | 161 | 319 |
| OAK RIDGE, TENNESSEE | 186 | 241 | 316 | 410 | 544 | 500 | 515 | 418 | 373 | 255 | 157 | 161 | 319 |
| OKLAHOMA CITY, OKLA. | 166 | 245 | 258 | 435 | 577 | 551 | 542 | 528 | 380 | 319 | 264 | 230 | 375 |
| PAGE, ARIZONA | 263 | 347 | 474 | 637 | 703 | 702 | 639 | 576 | 567 | 396 | 196 | 196 | 396 |
| PALMER, ALASKA | 1 | 69 | 180 | 343 | 433 | 348 | 348 | 273 | 201 | 98 | 98 | 98 | 98 |
| PHOENIX, ARIZONA | 300 | 388 | 400 | 688 | 783 | 632 | 632 | 511 | 486 | 410 | 307 | 229 | 417 |
| PORTLAND, MAINE | 179 | 204 | 332 | 448 | 486 | 521 | 510 | 471 | 311 | 211 | 117 | 124 | 311 |
| PROSSER, WASHINGTON | 105 | 183 | 239 | 431 | 630 | 634 | 663 | 579 | 411 | 268 | 131 | 131 | 311 |
| PULLMAN, WASHINGTON | 88 | 188 | 288 | 333 | 433 | 433 | 433 | 433 | 433 | 433 | 433 | 433 | 433 |
| RAPID CITY, S.DAK. | 205 | 245 | 357 | 480 | 491 | 640 | 587 | 488 | 397 | 284 | 162 | 166 | 380 |
| RENO, NEVADA | 194 | 307 | 423 | 482 | 589 | 513 | 607 | 588 | 488 | 342 | 198 | 151 | 465 |
| RICHLAND, 25 NW WASH. | 99 | 101 | 101 | 441 | 634 | 596 | 629 | 587 | 490 | 272 | 138 | 117 | 317 |
| RIVERSIDE, CALIFORNIA | 248 | 385 | 476 | 618 | 649 | 623 | 681 | 541 | 580 | 398 | 246 | 246 | 417 |
| RUSTON, LOUISIANA | 198 | 278 | 318 | 393 | 527 | 477 | 505 | 405 | 396 | 266 | 250 | 181 | 317 |
| SAINT CLOUD, MINN. | 186 | 265 | 367 | 366 | 394 | 516 | 566 | 481 | 340 | 214 | 114 | 104 | 324 |
| SALT LAKE CITY | 188 | 292 | 402 | 471 | 663 | 640 | 662 | 500 | 411 | 317 | 111 | 111 | 317 |
| SAN ANTONIO, TEXAS | 214 | 298 | 380 | 407 | 515 | 563 | 588 | 614 | 429 | 354 | 212 | 212 | 410 |
| SANTA MARIA, CALIF. | 230 | 344 | 494 | 639 | 652 | 625 | 670 | 628 | 532 | 311 | 271 | 232 | 473 |
| SAULT STE MARIE, MICH. | 131 | 252 | 300 | 444 | 372 | 626 | 496 | 487 | 265 | 182 | 114 | 105 | 321 |
| SEATTLE, TACOMA WASH. | 75 | 184 | 280 | 366 | 527 | 648 | 569 | 481 | 329 | 202 | 100 | 62 | 311 |
| SEATTLE WASH. UNIV. | 66 | 130 | 252 | 316 | 417 | 480 | 488 | 488 | 373 | 225 | 119 | 83 | 362 |
| SPOKANE, WASHINGTON | 101 | 196 | 280 | 380 | 560 | 570 | 617 | 590 | 372 | 225 | 119 | 83 | 362 |
| STATE COLLEGE, PENN. | 170 | 232 | 317 | 380 | 433 | 433 | 433 | 433 | 433 | 433 | 433 | 433 | 433 |
| STERLING, VIRGINIA | 187 | 243 | 345 | 471 | 501 | 511 | 479 | 463 | 311 | 233 | 145 | 145 | 311 |
| SWAN ISLAND, W.I. | 341 | 390 | 480 | 565 | 518 | 487 | 487 | 487 | 487 | 487 | 487 | 487 | 487 |
| TALLAHASSEE, FLORIDA | 223 | 334 | 406 | 472 | 501 | 501 | 441 | 370 | 411 | 321 | 291 | 291 | 370 |
| TAMPA, FLORIDA | 274 | 373 | 392 | 541 | 566 | 565 | 532 | 419 | 487 | 379 | 320 | 300 | 424 |
| TUCSON, ARIZONA | 280 | 376 | 472 | 595 | 658 | 662 | 583 | 488 | 469 | 429 | 330 | 235 | 471 |
| WAKE ISLAND, PACIFIC | 407 | 464 | 544 | 627 | 644 | 629 | 514 | 527 | 552 | 467 | 445 | 407 | 511 |

Note: Langley is the unit to denote one gram calorie per square centimeter.

(U) Indicates Urban sites.

Sun below horizon November 19 through January 23, inclusive.

Chart I. Departure from Normal of Annual Temperature ($^{\circ}\text{F}$) at Surface, 1970

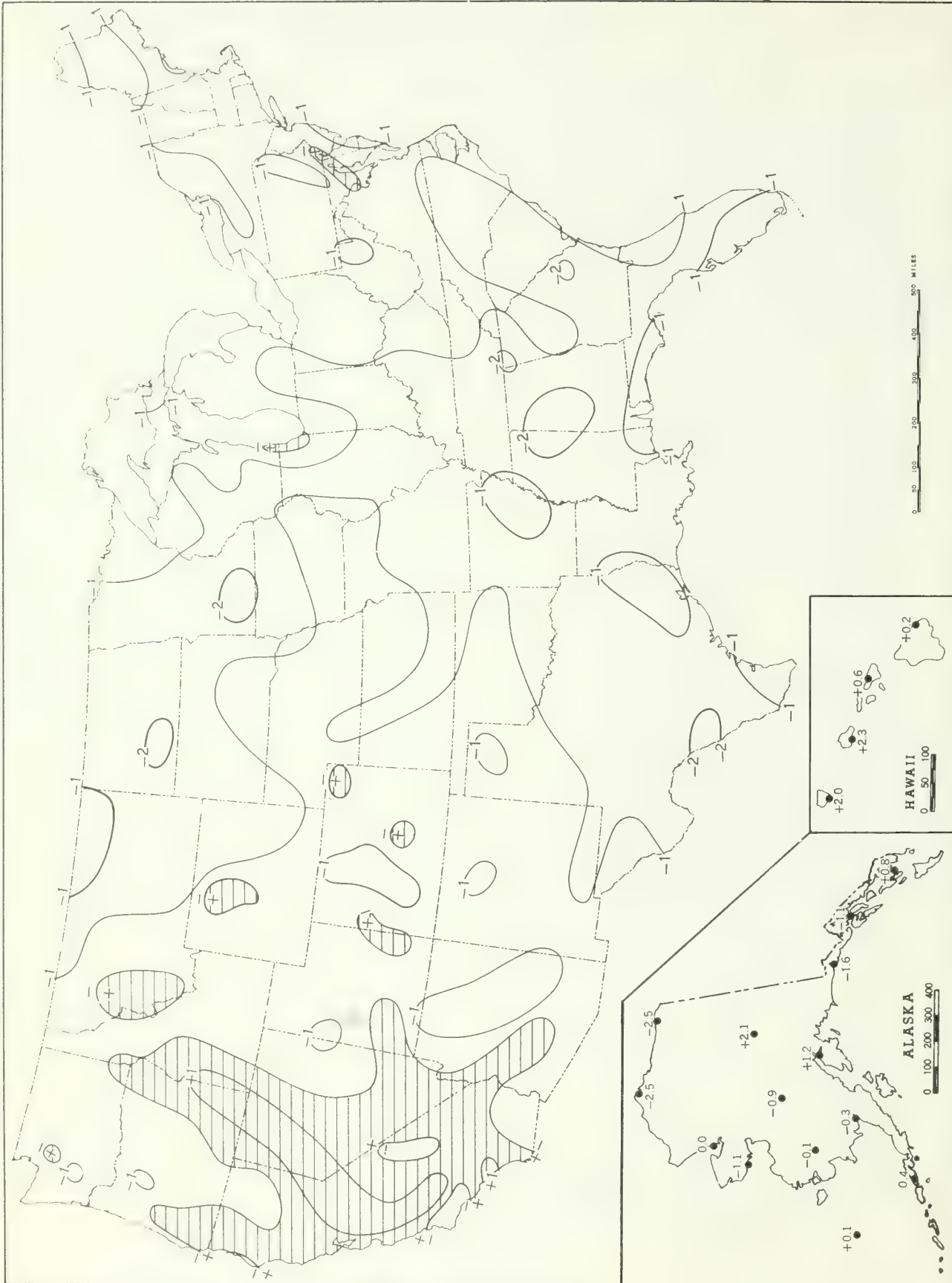


Chart II. Total Annual Precipitation (inches), 1970

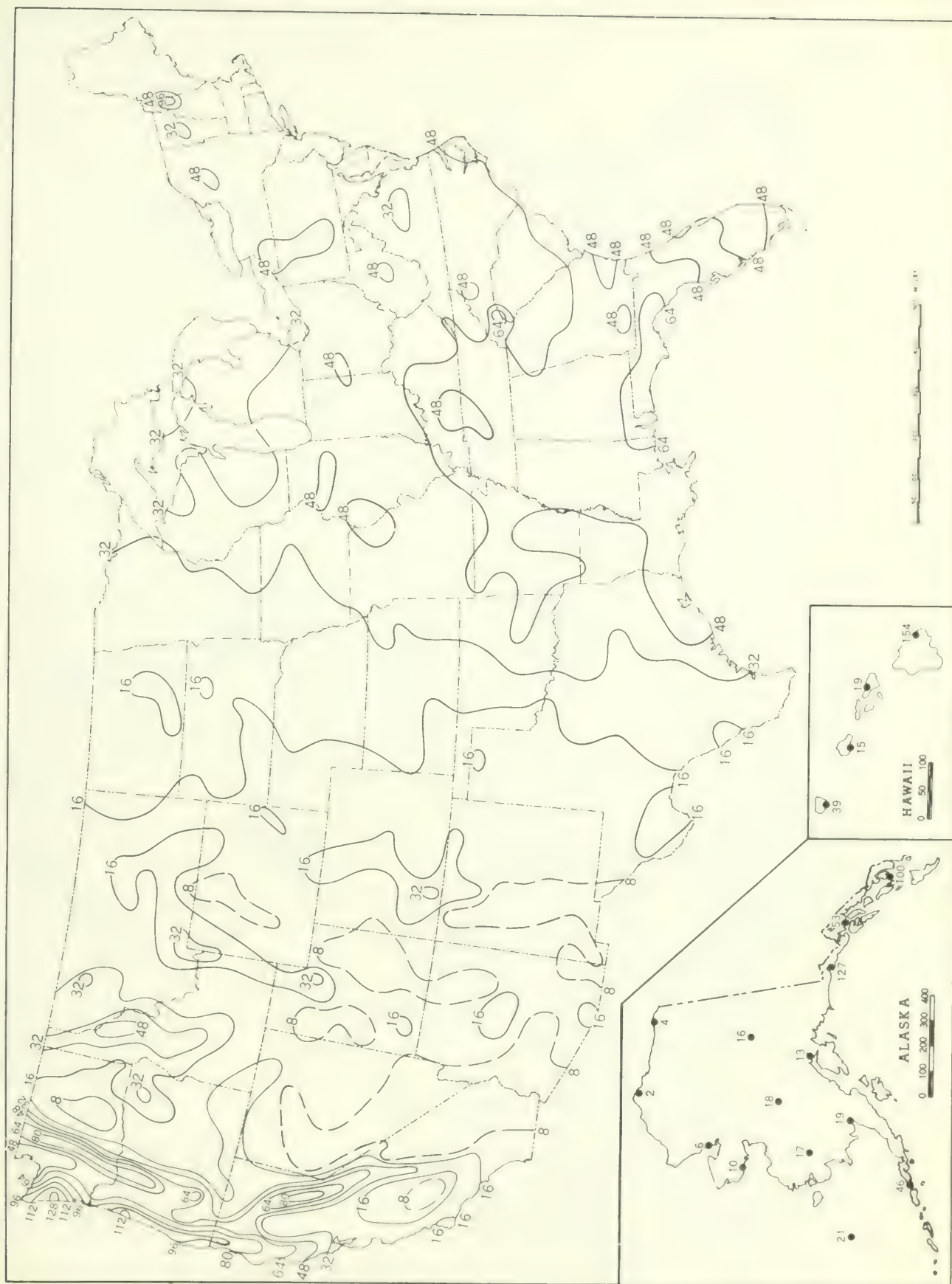
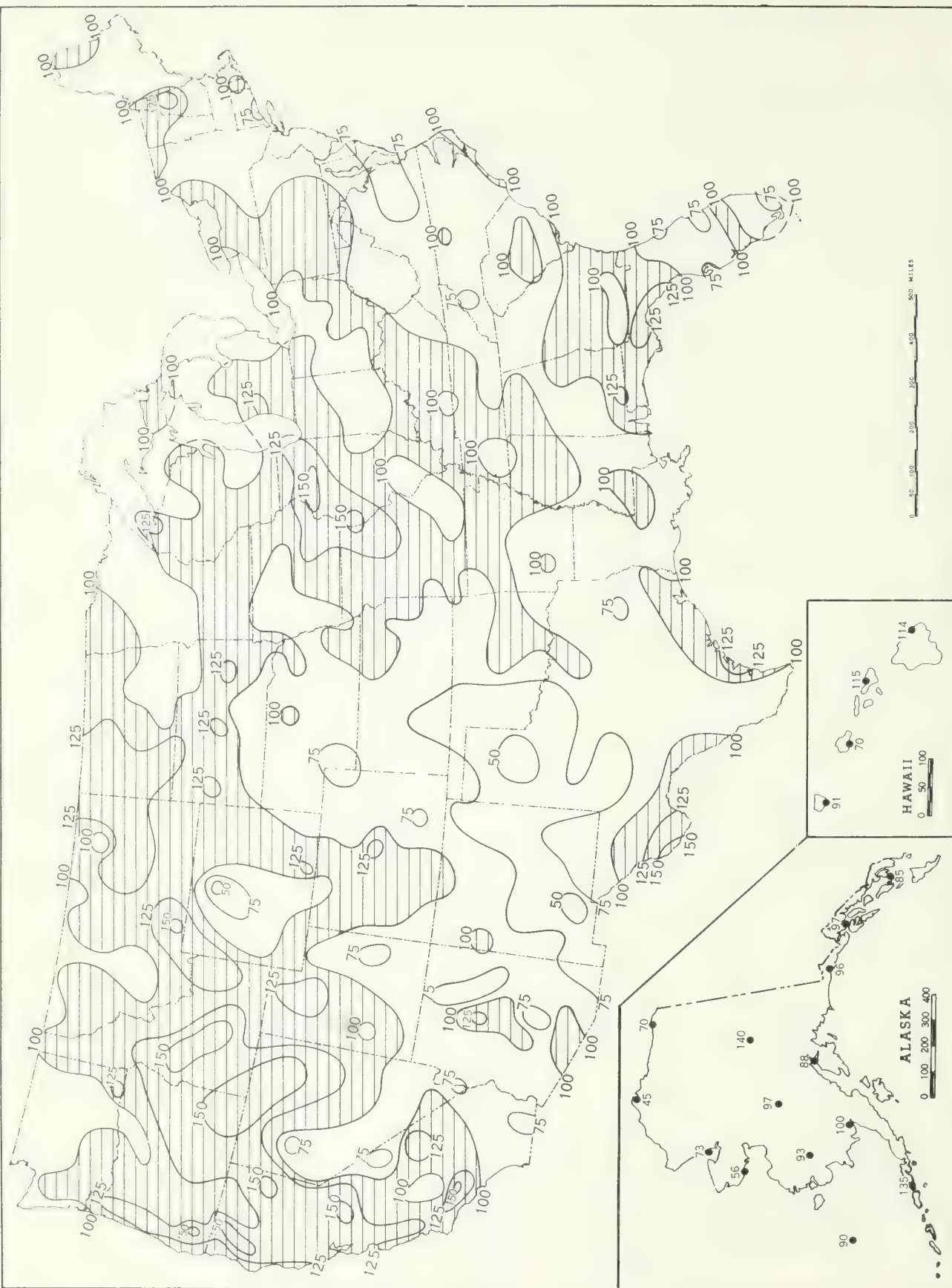


Chart III. Percentage of Normal Annual Precipitation, 1970



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